### REPORT

ON THE

### HEALTH OF THE BOROUGH

OF

### BIRMINGHAM,

FOR THE YEAR 1878,

ALSO,

ON THE PROCEEDINGS TAKEN UNDER THE ACT FOR THE

### PREVENTION OF ADULTERATION

OF ARTICLES OF FOOD AND DRINK,

BY

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and
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### Medical Officer of Health's Department, Public Office, Birmingham, May 3rd, 1879.

### TO THE HEALTH COMMITTEE.

MR. CHAIRMAN AND GENTLEMEN,

I have the honour to present my Report for the year ending December 28th, 1878.

The population of the Borough, estimated by the Registrar-General to the middle of the year upon the basis of the last census in 1871, was 383,117, spread over an area of 8,400 acres, and occupying about 73,000 houses, about 6,000 houses in addition being void. The average number of persons per acre is 45.6, but of course the population is not spread equally over the whole area.

The density of a population has a marked influence on mortality, as a rule those towns which are most densely populated suffer the heaviest mortality, and the same may be said of parts of towns. Birmingham is very favourably circumstanced in regard to the area which it occupies, comparing advantageously with some of the other principal towns of the kingdom. The following table shows the population, number of persons per acre, and mortality in certain towns of the kingdom:—

	Estimated Population, 1878.	No. of Persons per Acre.	Death-rate.
London	 3,577,304	47.5	23:5
Norwich	 84,620	11:3	24.6
Birmingham	 383,117	45.6	25.2
Liverpool	 532,681	102.2	29.4
Manchester	 360,514	84.0	27.9
Leeds	 304,948	14,1	23.8
Newcastle	 144,570	26.9	23.8
Glasgow	 566,940	94.0	24.9
Dublin	 314,666	31 '3	29.6

Although density of population exerts so marked an effect on public health, its influence may be interfered with, and even eclipsed, by bad conditions of another kind; a striking example of this fact is furnished by the city of Dublin, where, with a population numbering only 31:3 persons per acre, the mortality is excessively high.

The number of

### BIRTHS

registered during the year is 15,964, against 16,001 in 1877 and 15,816 in 1876, consisting of 8,155 males, and 7,809 females. The numbers for each quarter of the years 1873 to 1878 inclusive are as follows:—

187	3.	lst Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	TOTAL.
Total		 3,741	 3,564	 3,378	 3,814	 14, 497
Males		 1,892	 1,783	 1,715	 1,950	 7,340
Females	• • •	 1,849	 1,781	 1,663	 1,864	 7,157

187	4.							
Total			3,814	 3,871	 3,493		3,710	14,888
Males			1,953	 1,961	 1,753		1,853	 7,520
Females			1,861	 1,910	 1,740		1,857	 7,368
187							0	- / 000
Total			3,787	 3,737	 3,581	• • •	3,757	14,862
Males			1,929	 1,884	 1,815		1,904	7,532
Females			1,857	 1,853	 1,766		1,853	7,329
Sexless			1	 0	 0		0	 1
187	6.						0.010	
Total		* * *	4,140	 3,924	 3,803	• • •	3,949	15,816
Males		• • •	2,045	 1,996	 1,959		2,028	 8,028
Females			2,095	 1,928	 1,844		1,921	 7,788
187							0.00	
Total			4,296	 4,009	 3,769		3,927	 16,001
Males			2,139	 2,015	 1,878		2,037	8,069
Females	** 1		2,157	 1,994	 1,891		1,890	 7,932
187			4		0.010			
Total			4,139	 4,096	 3,849	• • •	3,880	15,964
Males			2,160	 2,051	 1,962		1,982	8,155
Females			1,979	 2,045	 1,887		1,898	 7,809

The Birth-rate for the year is 41.67 per 1,000 persons living, against 42.39 last year, and 39.38, the average rate in the 10 years 1868—77, and though lower than last year, is still higher than in any one of the preceding ten years, except 1876 and 1877, and is exceeded this year by only two of the twenty-three large towns of the United Kingdom, viz., Salford and Hull.

In the subjoined statement will be found the Birth-rate per 1,000 of the population in the undermentioned large towns for the year 1878:—

Average of London. Norwich. Birmingham. Liverpool. Manchester. Leeds. Newcastle. large Towns. 36.2 33.6 41.7 38.8 38.2 39.2 38.1 36.8

### DEATHS.

The Deaths registered during the year amount to 9,662, against 9,038 last year, and 8,330 in 1876. The Death-rate per 1,000 persons living is 25.2, as compared with rates of 24.8, 26.8, 26.3, 22.4, and 23.9, in the years 1873 to 1877 respectively. This rise is the result of the epidemic of Scarlet Fever, which raged in the Borough during the whole of the year, but more particularly, as is usual, in the 4th Quarter, and of the prolonged severity of the weather in the last two months of the year, when deaths from diseases of the Respiratory Organs were more than ordinarily numerous, as well as of a slightly higher Death-rate from Diarrhea. Although the Death-rate was higher in 1878 than in the two previous years, it was not so high as in 1874 and 1875; in the former year both Scarlet Fever at its acme and much Small-pox existed, while in 1875 Diarrhea was exceptionally fatal.

The death-rate given above does not exactly agree with that stated by the Registrar General, who makes it 25.5 per 1,000. This difference is explained by a footnote in the Registrar General's Annual Summary for 1878 to the effect that "the deaths in Birmingham.... include paupers belonging to the Borough who died in Workhouses situated outside the municipal boundaries."

The Workhouses referred to are those of Erdington and King's Norton; the former receives paupers from that part of the parish of Aston situate in the Borough of Birmingham, and the latter receives them from that part of the parish of Edgbaston which constitutes a portion of the Borough.

But while these deaths are strictly set down to the account of the Borough, there is no allowance made in the opposite direction for the deaths of persons in the numerous medical and eleemosynary institutions of the Borough who come from places outside its boundaries, so that our death-rate, cateris paribus, appears considerably higher than it actually is. I have not endeavoured as yet

to rectify the error, because from my experience of procuring returns I fear it would be very difficult, if not impossible, to obtain the necessary statistics, but I intend to enquire into the matter.

The Table below affords comparative information for the last 14 years upon estimated population, actual numbers of Births and Deaths and Birth-and Death-rates:—

X7		imated Populati	on	Births.		Deaths.		Annual I	Rate ving.	
Year.		in the middle of each Year.		Dirtins.		Deaths.		Births.	ving.	Deaths.
1865	7			12,699		8,014		38.87		24.5
1866	_ i '	The Estimated		12,877		8,042		38.48		24.0
1867	( .	Population	ر کے	13,029		8,318		38.01		25.6
1868		n these years i not to be	s )	12,992		8,548		36.31		25.9
1869		relied on.		12,779		7,737		35.23		23.1
1870	)			12,922		7,805		35.00		23.0
1871		344,980		13,443	• • •	8,594		39.00		24.9
1872		350,164		14,123		8,048		40.50		23.1
1873		355,540		14,497		8,990		40.78		24.8
1874		360,892		14,888		9,665		41.25		26.8
1875		366,325		14,862		9,668		40.57		26:3
1876		371,839		15,816	,	8,330		42.53		22.4
1877		377,436		16,001		9,038		42:39		23.9
1878		383,117		15,964		9,662	• • •	41.67		25.2

In the following statement is given the Death-rate per 1,000 of the population of Birmingham and the principal large towns for the year 1878, and the five preceding years:—

DEATH-RATE PER 1,000 PERSONS LIVING.

		age of 20 is		London.	Norwich.	Birm.	Liverpool.	Manchstr.	Leeds.	Newcastle.
1878		24.4	• • •	23.5	24.6	25.2	29.4	27.9	23.8	23.8
1877		22.8		21.9	21.0	23.9	26.5	27.4	22:3	22.4
1876	•••	23.6		22.3	21.9	22.4	27.6	29.2	25.1	22.8
1875		25.4		23.7	24.5	26.3	27.5	29.9	26.4	26.1
1874	• • •	25.4		22.5	23.5	26.8	32.0	30.4	28.7	29.2
1873		24.4		22.5	21.5	24.8	25.9	30.1	27.6	30.1

In the subjoined Table will be found the total number of Deaths, the number of Deaths in each sex, and the Death-rate for each quarter of the year, together with the totals for each of the four preceding years:—

	lst	2nd	3rd	4th	Total	Total	Total	Total	Total
	Quarter.	Quarter.	Quarter.	Quarter.	1878.	1877.	1876.	1875.	1874.
Total	2,592	2,045	2,431	2,594	9,662	9,038	8,330	9,668	9,665
Males	1,340	1,105	1,277	1,364	5,086	4,745	4,390	5,044	4,993
Females	1,252	940	1,153	1,229	4,574	4,292	3,939	4,623	4,672
Sexnotknown	_		1	1	2	1	1	1	
Death-rate	27.06	21:35	25:90	27.08	25.2	23.95	22.40	26:34	26.78

The division of the Deaths among the nine Registration Sub-Districts is shown in the statement below:—

		1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total 1878.	Total 1877.	Total 1876.	Total 1875.	Death-rate 1878.
Ladywood		297	250	296	311	1,154	950	890	1,090	23.3
St. Thomas		237	205	221	246	909	880	805	932	21.7
St. Martin		288	199	279	304	1,070	996	1,028	1,084	24.6
St. Mary		97	74	87	100	358	352	347	394	23.5
St. George		443	311	354	357	1,465	1,383	1,286	1,568	27:5
All Saints'		404	380	365	454	1,603	1,571	1,376	1,370	37.4
Deritend		396	314	427	415	1,552	1,437	1,260	1,365	24.3
Duddeston		349	247	341	323	1,260	1,239	1,091	1,292	23.9
Edgbaston	• •	81	65	61	84	291	230	247	273	13.6

If we exclude all the Institutions in the Borough, except the Workhouse, the Death-rate last year is 23.6; excluding the Workhouse also, it is 22.2 per 1,000 per annum.

The high Death-rates in St. George's and All Saints' Sub-Districts are due to the existence in the former of the General Hospital, and in the latter of the Gaol, Asylum, Borough Hospital, and Workhouse. The death-rate of St. George's Registration Sub-District, excluding the deaths recorded in the General Hospital, would be 23.7 instead of 27.5, as it actually now appears. In like manner, if the deaths in the Queen's Hospital, situated in St. Thomas' district be excluded, the number of deaths in that district is reduced from 909 to 781, and the death-rate from 21.7 to 18.7.

By eliminating the deaths that have taken place in the Children's Hospital the death-rate in Ladywood Registration Sub-District is brought down to 21·1, and by discarding those registered as dying in the Workhouse, Borough Hospital, Lunatic Asylum and Gaol, the death-rate of All Saints', instead of appearing as 37·4, stands at 21·3.

In the subjoined Table will be found the number of deaths in each of the Wards of the Borough for each quarter of the year:—

				lst	2nd	3rd	4th	
D.44 DI. /W	7 7	TT \			Quarter.			Total.
Rotton Park (W	Y . , T	5.H.)	• • •	274	281	259	323	1,137
All Saints' (L.)				185	168	182	202	737
Ladywood (H.)				159	133	161	158	611
St. Paul				123	80	102	129	434
St. George				176	120	160	147	603
St. Stephen				161	103	145	116	525
St. Mary (H.)		• • •		168	164	176	192	700
St. Bartholome	w			182	112	184	196	674
Market Hall				120	84	88	99	391
St. Thomas (H.	)	• • •		174	136	146	162	618
St. Martin				139	118	136	144	537
Edgbaston				93	72	73	97	335
Deritend				167	112	150	161	590
Bordesley				169	159	179	190	697
Duddeston				132	97	119	111	459
Neehells	• • •			170	106	171	167	614
То	tal	•••		2,592	2,045	2,431	2,594	9,662

In the following statement is given the number of deaths at various ætal periods for each of the quarters of 1878, and the totals for that and the two preceding years:—

	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total 1878.	Total 1877.	Total 1876.
Under 1 year of age	714	546	902	606	2,768	2,629	2,538
Between 1 and 5 years of a	ge 606	440	571	645	2,262	1,832	1,344
" 5 and 10 "	110	92	135	185	522	278	290
" 10 and 20 "	72	85	79	86	322	292	304
n 20 and 40 n	251	249	220	255	975	1,054	1,020
n 40 and 60 n	393	293	262	361	1,309	1,432	1,393
" 60 and 80 "	371	301	219	394	1,285	1,321	1,245
At 80 years and upwards	75	39	43	62	219	200	196

By comparing the figures for 1878 and 1877, it will be found that there is an increase in the number of deaths at each of the ætal periods up to 20 years, and at that above 80 years of age, while at the ætal periods between 20 and 80 years

of age the number has diminished. At the setal periods below 20 years of age, the rise in the mortality is entirely due to the excessive fatality of Searlet Fever; that at 80 years of age and npwards is to be ascribed to a slightly larger number of deaths from Local Diseases generally at that age.

The average age at death for each Quarter of the Year, and for the whole year, is given below, and compared with the corresponding data of the previous year.

First Quarter 24 years 2 months. 27 years 7 months. 24 11 0 11 25 11 4 Second " Third " 17 " 20 " 10 3 Fourth " 23 11 22 " 1 Whole Year 22 11 2 11 24 11

The death age for the year 1877 was two years higher than in 1878. The principal cause of the lower age in the latter year is the increased mortality from Searlet Fever and Diarrhea among young children.

On looking at the death age for the several Quarters of the year, it will be observed that it was lowest in the third quarter, the explanation of this fact is that in that part of the year the high mortality from Diarrhea, combined with a high mortality from Searlet Fever carried off a great number of the infant population; in the fourth Quarter, although Searlatina was more fatal than at any other time, and a still low death age might be expected, the death age rose to nearly the same figure as in the first two quarters, and above that of the corresponding quarter of the previous year, this fact receives its explanation from the circumstance that there was a considerable mortality at the end of the quarter amongst persons of advanced age, from chest and other diseases.

Appended to the Report is a Chart showing the death-rate and death-age at the various weekly periods throughout the year.

### INFANT MORTALITY.

The following are the per-eentages of deaths under one year of age on the total number of births registered in the principal large English towns during the last six years:—

		verage of		Tondon	NT	D/				
	large	English To	WILS.	London.	Norwich.	Birm,	Liverpool.	Manchstr.	Leeds.	Newcastle.
1878	• • •	17.2		16.4	21.1	17.0	19.3	17.5	18.8	16.1
1877		15.4		14.6	15.4	16.4	18.8	16.1	16.5	15.1
1876		16.7		15.7	17.8	16.0	20.8	18.0	18.1	16.7
1875		17.6		16.2	21.0	19.6	21.0	18.4	19.7	18.7
1874		17:5		15.6	17.8	17.8	23.3	19.7	19.9	19.8
1873		17.4		16.0	16.1	18.1	21.3	20.0	19.4	18.7

The slight increase in the figures for 1878 is due to the diminished birthrate for the same year.

The per-eentage of deaths under one year of age on total deaths during the last six years in the principal large English towns is given in the subjoined statement:—

	large	verage of a English T	owns.	London.	Norwich.	Birm.	Liverpool.	Manchstr.	Leeds.	Newcastle.
1878		26.5	•••	25.2	28.7	28.6	25.5	24.0	31.0	25.8
1877	• • •	25.5		24.1	24.7	29.1	27.5	22.6	29.7	26.6
1876	• • •	26.9	• • •	25.7	27.0	30.5	29.6	24.5	29.9	30.4
1875	•••	26.2	•••	24.4	28.0	30.6	29.4	24.3	30.1	29.1
1874	• • •	26.4	•••	24.9	24.0	27.8	28.2	25.4	28.8	27.5
1873	•••	27.0	• • •	25.2	24.5	29.2	30.4	25.7	28.0	27.1

The diminution in the per-centage of deaths under one year on the total deaths is owing to the generally higher mortality at ages above one year.

### ZYMOTIC DISEASES.

From the seven principal Zymotic Diseases 2,421 deaths, or 25·1 per cent. of the total number of deaths from all causes, have been registered. In 1877 the total number of deaths from this class of diseases was 1,576, or 845 less than that for the present year; while the average number for the five years, 1873—77, was 1,950, or 471 less than that for the year under notice. The Zymotic death-rate is this year 6·3 per 1,000 persons living per annum, against rates of 5·6, 7·3, 5·9, 3·6, and 4·2 in the years 1873, 4, 5, 6, and 7 respectively, as shown in the table below, from which it is also seen that the Zymotic death-rate is higher than in any year of the last six, except 1874, when the last epidemic of Scarlatina reached its height, and existed in conjunction with Small-Pox:—

	erage of 0 large							
	ish Towns.	London.	Norwich.	Birm.	Liverpool.	Manchestr.	Leeds.	Newcastle.
1878	 4.4	4.1	3.6	6.3	6.1	4.0	4.5	4.6
1877	 3.2	3.5	2.9	4.2	4.7	4.2	2.8	2.5
1876	 4.1	3.6	2.9	3.6	6.1	5.2	4.5	2.5
1875	 4.4	3.9	4.3	5.9	4.5	4.6	4.6	3.6
1874	 4.5	3.3	2.0	7:3	8.4	5.2	6.3	5.2
1873	 3.9	3.3	2.2	5.6	4.0	5.9	5.6	6.8

In the subjoined Table is given the percentage of Zymotic deaths on total deaths during the same period in the same principal towns:—

	2	lish Towns.	London.	Norwieh.	Birm.	Liverpool.	Manchistr.	Leeds.	Newcastle.	
1878		18.2	17.6	14.5	25.1	21.9	14.3	19.0	19.2	
1877		15.4	16.0	13.8	17.4	17.8	15.4	12.6	10.3	
1876		17:3	16.1	13.2	16.0	22.1	17.8	17.8	11.0	
1875		17.5	16.2	17.6	22.2	16.4	15.5	17.4	13.8	
1874		18.0	14.9	9.0	27.4	25.2	19.7	25.0	18.6	
1873	•••	16.3	14.9	10.1	23.8	19.1	19.7	22.9	22.0	

SCARLET FEVER has been this year the most fatal of the Zymotics, having occasioned as many as 995 deaths, against 237 in 1877, and 406 the annual average in the five years 1873-1877. The mortality from this cause during the present year (1878) has been 2.6 per 1,000; in 1874 it was a little over 2 per 1,000. It has been widely scattered throughout the Borough, but has been, in relation to population, most fatal in St. Martin and Ladywood Sub-Districts, more particularly the latter. It is the habit of this disease, which is a constant guest with us, to reach the height of its epidemic wave about every five years. Such a culminating period was 1874, and in 1878 it again occurred. This regularity of appearance is no doubt due to the fact that the disease is one principally confined to children between two and seven years of age, and that the epidemic having assailed nearly every susceptible child declines from sheer want of subjects of attack, and so diminishes for a time to gradually increase and attain its maximum of development again in the quinquennial period referred to.

It will be observed that not only is the actual number of deaths from this disease greater in 1878 than in 1874, which might be accounted for by the increase of population, but it is also relatively greater to the number of persons living, the death rate being as much as 30 per cent higher in 1878 than in 1874. The question naturally suggests itself what is the cause of this increase? It can hardly be due to worse sanitary conditions, for the last four or five years have been characterised by remarkable activity in the amelioration of the state of the town; in my opinion it is the result of that extension of the educational movement which it is so desirable to advance, but which like all other good

measures is handicapped with certain drawbacks and disadvantages. The association of children in much larger numbers than formerly in private, national, and board schools naturally favours the spread of a disease which is as intensely infectious, perhaps, as any with which we are acquainted, and the ignorance or carelessness of parents in allowing children affected to mix with other children in all stages of the disease promote the extension of it to a degree which is most blameable as well as alarming, because by care in isolating cases at an early period in their history there is no doubt that the disease might

be restricted within comparatively narrow limits.

Although the greater prevalence of certain Zymotic diseases of children is as a fact traceable to the circumstance that a greater number of children are brought together in the present time than formerly, yet this in no wise reflects on the means employed for the diffusion of education. The Schools, the new ones certainly, and particularly the Board Schools, are well adapted for their purpose, and no blame is therefore to be placed on either them or their management, which latter is also excellent. As the periodical nature of Scarlet Fever epidemics is now well-known, the conditions of its propagation or arrest are understood, and the advantages of Hospital isolation and treatment are fast becoming recognised, we clearly have the means largely at command of preparing for and providing against such future epidemics. The great want is the willingness of parents and guardians of children to avail themselves of the benefits to be derived from the utilisation of the means of prevention and protection placed by the Sanitary Authority and certain benevolent institutions at their disposal.

DIARRHCEA has proved fatal in 680 instances; last year the deaths from this cause numbered 457, while the average number for the five years 1872-6 was 703. These facts show that while the mortality from Diarrhœa is this year greater than it was during 1877, owing probably to the considerably higher temperature of the third quarter of the year than existed in 1877, it has not been so high as the average of the five years 1872-6. The largest number of deaths from this cause has taken place in the Registration Sub-District of St. George. Sixty-nine per cent. of the deaths occurred in infants under one year of age, and 90.6 per cent. in children under five years

of age

The following are the Diarrhea death-rates in certain of the large towns for 1878:—

London. Norwich. Birmingham. Manchester. Liverpool. Leeds. Newcastle. 1.0 1.5 1.8 1.8 1.4 2.0 1.6

WHOOPING COUGH comes next in order of fatality, with 455 deaths, as compared with 369 deaths in 1877, 189 in 1876, and 438 in 1875. This disease has been most prevalent in St. George's Registration Sub-District, which

is the most populous of the whole nine.

FEVER, of which 2 are certified from Typhus, 119 from Typhoid, and 26 from Simple Continued Fever, has resulted in 147 deaths, against 144 in 1877, 147 in 1876, and 204 in 1875. Although there are 3 cases of Fever more than in 1877, terminating fatally, the increase of population leaves the Fever death-rate unchanged.

The death-rates from Fever in Birmingham and in 20 large English towns since 1870, are as under:—

				Birm.			20 large towns.
1870				'63 per	r 1,000 r	er annum.	•90
1871				.53	H	H	·78
1872				.54	11	н	•60
1873	• • •			.57	11	0	·59
1874				.56	11	16	.58
1875				·56	11	11	.52
1876	• • •			.40	n	12	•45
1877		***	•••	•38	11	11	•42
1878	***			.38	11		$\cdot \overline{42}$

The steady diminution of Typhoid Fever during the last few years has this year apparently ceased, the proportion of deaths returned as resulting from that disease being exactly the same as last year. There is, however, good reason to believe that this arrest in the decrease of Typhoid fatality is apparent rather than real. It is reasonable to expect that the improvements of water-supply, drainage, and house construction, which have been so largely effected, and which stand confessedly in such close relation to the prevention of Typhoid, should be followed by a lower mortality, and, for my part, I have faith in the view that it is so. In the absence of such a confidence, the prospect would be anything but encouraging to the sanitarian. the anomaly to be be explained? My own observation leads me to the conclusion that much carelessness is exhibited in both diagnosing and naming several I have reason to know that cases of Scarlet Fever first seen forms of disease. by the attendant towards their termination, and after all the more characteristic signs and symptoms had disappeared, are hastily and thoughtlessly set down as Typhoid; that cases of simple fever, occurring in feeble subjects, and therefore characterised by a low type, are at once, without any careful examination for, or any discovery of the distinguishing signs of true Typhoid, designated and certified as Typhoid. On putting the matter to medical men, in some cases where, from the unexceptionably satisfactory state of the premises, there was reason to believe the cause of death could not be Typhoid, they have frankly admitted that by Typhoid they did not mean true Typhoid, but simply low fever, which, however, is not Typhoid at all. But the abuse of nomenclature does not stop here.

A case that occurred recently was certified and registered as Typhus. visited the premises with a view to discover the conditions which are so well understood to be associated with this dreadfully infectious and fatal disease but found them all absent. Convinced that Typhus, which is so rare a disease in Birmingham, could not be the cause of death, I waited upon the medical man who candidly, in reply to my questions, said he did not mean Typhus, nor yet Typhoid, but simply low Fever, a fever in fact low like Typhoid or Typhus. Of course it is quite time, now that the distinctions between different kinds of fever are so well made out, that this vitiation of the registration of disease returns by means of loose nomenclature should cease. They are a repreach to professional prestige, and are injurious to the excellent object of Disease Registration, and I hold that although no fee rewards the trouble of giving medical certificates of the cause of death, yet as the duty is imposed on the medical attendant, there is no excuse for such certificates being made out incorrectly; at the same time I am prepared to admit that it appears unfair and unreasonable to expect professional men to give their time in rendering service to the State without remuneration.

Under all the circumstances, it seems justifiable to conclude that if cases were properly certified, the mortality from Typhoid, instead of appearing stationary, would exhibit a gradual decrease, and this view is strengthened by the consideration that we have no explosions or habitats of Typhoid, but that the cases are pretty generally distributed.

DIPHTHERIA is debited with a considerably larger number of deaths, 83 having been certified as terminating fatally, as compared with 52 deaths in 1877 and 58 deaths in 1876. This large increase is, however, probably rather apparent than real. In bearing in mind the severe epidemic of Scarlatina which has existed during the year, and the difficulty of distinguishing it from Diphtheria in some

cases where the cruption is slight, and therefore unobserved, or where, perhaps, it is altogether absent, we may reasonably conclude that many such obscure cases of Scarlatina have been set down as Diphtheria. I am strengthened in this view by the fact that at about the same time, and in the same house, cases have been, to my knowledge, described one as Scarlatina and another as Diphtheria; and although it is not impossible that the two diseases should exist in the same house at the same time, it is more than probable that all the cases were of the same kind, the more particularly as the peculiar conditions likely to generate Diphtheria have been proved by careful examination to be absent. Taking this view of the question, it is very likely that the actual cases of Diphtheria this year are little, if at all, proportionately greater than in previous years.

MEASLES, on the contrary, has largely diminished in its prevalence and fatality, it being accountable for only 54 deaths in 1878, against 309 deaths in 1877, 87 deaths in 1876, and 141 in 1875, having been less fatal, indeed, than in any year since 1872.

SMALL-POX.—Twenty-seven cases have some under my knowledge during the year, while the deaths were only five. The number of cases reported last year was 50, eight of which terminated fatally.

DEATHS AND DEATH-RATE FROM SMALL-POX PER 100,000 OF THE POPULATION.

Town.		Donulation	Deaths from		D.4	7.00.000	
IOWII.			Small-pox in the year 1878.	1878.	1877.	r 100,000. 1876.	1875.
London		3,577,304	1,416	39.6	72.0	21.1	2.2
Portsmouth		129,461	0	0.0	0.8	0.8	0.0
Norwieh		84,620	2	2.4	0.0	2.4	0.0
Bristol		206,419	0	0.0	0.0	17.0	35.7
Wolverhampton		74,240	0	0.0	0.0	0.0	0.0
Birmingham		383,117	5	1.3	2.1	0.0	47.5
Leicester		121,473	0	0.0	0.9	0.0	0.0
Nottingham		165,276	0	0.0	0.0	0.0	0.0
Liverpool		532,681	3	0.6	56.7	68.4	5.6
Manehester		360,514	1	0.3	13.3	55.9	4.8
Salford		170,251	1	0.6	57.1	250.7	23.8
Oldham		107,366	1	0.9	26.7	7.9	3.4
Bradford		185,088	1	0.6	2.2	0.6	1.8
Leeds		304,948	0	0.0	1.0	1.4	7.0
Sheffield		289,537	1	0.3	0.7	0.3	0.0
Hull		143,139	1	0.7	0.7	0.0	1.5
Sunderland		112,459	1	0.9	0.0	0.0	0.0
Neweastle-on-Tyr	1e	144,570	0	0.0	0.7	0.7	0.0
In 18 Towns		7,098,654	1,433	20.2	42.8	24.9	6.4

The following statement gives the number of cases and deaths from Small-Pox in each quarter since the end of 1871:—

DATE.		Cases	S.	Death	s.
1871.	c	050		40	
November 18th to end	of year	. 359		43	10
	Total		359		43
1872		700		0.0	
1st Quarter	• • • • • • • • • • • • • • • • • • • •			96	
2nd 11		. 632		92	
3rd 11		. 355		67	
4th 11		. 192		44	
	Total	. —	1,977		299
1873.				0.0	
1st Quarter				29	
2nd "				37	
3rd "		. 124		18	
4th "		. 253		38	
	Total		794		122
1874.					
1st Quarter		757		123	
2nd "		. 1,303		196	
3rd "		1,059	1	165	
4th "		. 672		153	
	Total		3,791		637
1875.					
1st Quarter		366		85	
2nd "		347	•	72	
3rd "		. 95		14	
4th 11		16		2	
	Total .		824		173
1876.	2000	•			
1st Quarter		2		0	
2nd "		2		0	
3rd "		2		0	
4th "		. 5		0	
	Total		11		0
1877.	20002				
1st Quarter	* * *	7		1	
2nd "		. 20		3	
3rd "		. 20		3	
4th "		. 3		1	
	(D - ) 1		50		8
1873.	10000	•			Ü
1st Quarter		მ		0	
2nd 11		. 4		0	
3rd "		10		2	
4th 11		. 10		3	
	13 / 7		27		5
	Grand Tota				
	attina Loui		7,833	1	,287
			1,000	1	, 207

The total mortality from

### CONSTITUTIONAL DISEASES

has slightly increased on that in 1877. The deaths from Cancer have decreased in number, while those from Phthisis (Consumption), Tabes Mesenterica and Dropsy have each increased. With regard to

### LOCAL DISEASES,

those of the Nervous System have not materially changed, the number of deaths from Paralysis and Epilepsy having diminished, while those from Apoplexy and Brain Disease have increased a little. The deaths referred to Heart Disease show a marked diminution on the number in the previous year, while those from diseases of the Respiratory Organs have remained nearly stationary, the deaths from Bronchitis showing a fall and those from Pneumonia a rather considerable rise on the number in 1877. The deaths classed under diseases of the Digestive Organs show

generally a decrease on last year, which is more particularly noticable in the case of Liver Disease. The number of persons certified as dying from diseases of the Urinary Organs has undergone no material alteration, and the same remark applies to the deaths from diseases of the Organs of Generation and Locomotion, and from those of the Integumentary System.

With reference to

### DEVELOPMENTAL DISEASES

it may be noted that the number of deaths from both Premature Birth and Teething has considerably augmented, while the numbers from Old Age and Debility are smaller than those in the previous year.

Childbirth and Puerperal Fever (Metria) are certified as causing 49 deaths as compared with 59, 52, and 75 in the years 1877, 1876, and 1875 respectively, so that the deaths from these causes equal an annual rate of 3.1 per 1,000 Births registered during the year.

### DISEASE MAPS,

illustrating the distribution of Scarlatina, Measles, and Typhoid, will be found appended; one object of such maps is to present to the eye the area of distribution of these diseases, by which a much better notion is formed than could possibly be conveyed by a verbal description, another is to indicate those parts of the town which are most subject to invasions of Zymotic disease, and so to indicate the direction in which to make inquiries into the possible local causes of and the conditions favourable to the existence of this class of preventable disease.

On looking at the SCARLATINA Map, it is at once observable that the disease existed pretty equally over the whole of the Borough, excepting in the centre of the town, the extreme outlying portions of the town and Edgbaston Ward. The explanation of these facts seems to be that in such localities the population is very sparse, and more particularly, children who form the principal subjects of attack, are few in number there. In Edgbaston Ward another condition comes into play, the combination of greater prosperity and intelligence, care and cleanliness, in consequence of which the disease has less opportunity of successfully invading that portion of the town, and in cases where it obtains a footing, curative and preventive measures are more completely employed, so that the cases as a rule terminate in recovery, and the spread of the disease is checked.

I find that in the last epidemic of Scarlet Fever in 1874 the same distribution obtained.

From a consideration of the incidence of the disease during the last six years, the conclusion is forced upon the mind that wherever children are found in large numbers, irrespective of locality, the disease is most prevalent. In one year some parts of the town are more severely visited, in another year other parts suffer most; but all parts, with the exceptions already made, are attacked in turn, those, however, suffering most—like St. George's Ward—where the population is most dense. Local conditions then, excepting density, seem to have little effect on the prevalence of Scarlatina; the real cause of the spread and general distribution being the communication of infection directly from one individual to another.

The MEASLES map shows that the 54 deaths of the year are distributed in much the same manner as those from Scarlatina, and that the disease does not appear to have displayed any partiality for particular localities, with the exceptions and for the reasons before named.

The TYPHOID map illustrates the freedom of the centre of the town and Edgbaston Ward from the disease, and a pretty general distribution over the other parts of the town. During the past six years the disease has been most prevalent in the Wards of St. Mary, St. George, and Duddeston, all of which are largely inhabited by a poor and dense population.

### VACCINATION.

During the past year 8,635 persons have been vaccinated by the public Vaccinators. This number is exclusive of the cases treated by private practitioners. It is desirable, in order to judge of the amount of protection secured against Small-pox, to know how many of all the children born are submitted to the operation of Vaccination; but as it is impossible to give this information for the whole of the year ending December 31st, owing to the Act applying only to children three months old, and to other circumstances, I have given in Table XVI. a summary of the last returns made to the Local Government Board for the year ending 30th June, 1878, by Mr. Wilcox, Vaccination Officer for the parish of Birmingham, Mr. Towler, Vaccination Officer for the parish of Aston, and Mr. E. Doeker, Vaccination Officer for the parish of Edgbaston, to whose courtesy and kindness I am indebted for the Statistics.

From the Table it will be found that out of 9,763 births registered in the parish of Birmingham, 680 or 6.9 per cent. apparently escaped Vaccination, or are unaccounted for, but it is probable that some few referred to in column 11 have since been Vaccinated, and others have died.

In the Borough portion of the parish of Aston likewise, out of 5,653 registered births, 358 or 6.3 per cent. had remained unvaccinated at the time the return was made, while in the corresponding part of the parish of Edgbaston, 46, or 9.1 per cent. were unaccounted for.

### METEOROLOGY.

The Meteorological returns, kindly supplied by Mr. D. Smith, are as follows for the last six years:—

Mean ter	nperature	of 1st Q	uarter	 1878. 42° · 4	420.4	39°·0	1875. 40° · 4	1874. 410:4	1873. 39°·0
11	T II	2nd	11	 540.5	510.4	510.2	53°-7	530-2	51°·8
0	11	3rd	11	 600.9	580.4	610.3	600.0	590.9	59°·1
11	11	4th	11	 400.9	45°.5	46° ·2	420.5	410.6	440.5
H	11	year		 490.1	490.5	490.4	49°·1	490.0	480.6

The mean temperature for the first three quarters and for the whole year was above the average, while that for the fourth quarter was under the average temperature of the last ten years.

The rainfall, which was collected to the extent of more than z<sup>1</sup> of an inch on 148 days during the year, was three inches in excess of the average during the past ten years.

Full particulars of the height of Barometer, the range of temperature and mean temperature of each month of the year, the rainfall, etc., may be found in Tables XII and XIII.

### THE BOROUGH HOSPITAL

has received during the year 424 cases of Scarlet Fever, and 29 cases of Small Pox, making a total of 444, against 43 eases of Scarlet Fever, and 38 cases of Small Pox, or a total of 81, in 1877.

Of the twenty-nine cases of Small Pox received into the Hospital seventeen had been vaccinated and twelve unvaccinated; when it is considered what a small proportion the unvaccinated bear to the vaccinated in the whole population, some idea is obtained of the enormous proportion of the former to the latter which are subjects of attack, and therefore of the immense value of Vaccination in protecting from the disease; for although the percentage of unvaccinated persons to vaccinated is small, the proportion of unvaccinated persons attacked with Small Pox upon the total number of persons so attacked is no less than 41 per cent. The same remarkable disparity between the two classes is seen also in the mortality from Small Pox. Of the twenty-nine cases five died, or a little over 17 per cent., but of these five three were unvaccinated.

It is very satisfactory to find that the public are beginning to better appreciate the advantages offered by the Hospital. The number of cases admitted in 1878 is larger than in any year since its establishment, not excepting the year 1875, in which the severe epidemic of Small-pox existed. The increase is the more significant in regard to the fact that persons are, as a rule, much more ready to avail themselves of the benefits of such an Institution in cases of Small-pox, than in those of Scarlet Fever, one reason being that there is a greater fear in the popular mind of the former, than of the latter, and another reason being that Scarlet Fever occurs in younger subjects, and mothers and friends have consequently a stronger objection to part with them.

If the Borough Hospital were used as intended, that is, for the isolation of first cases, it would be easy to effectually prevent such an epidemic of Scarlet Fever as that from which the town is now recovering, and, indeed, epidemics generally; but though the Corporation has wisely and humanely done its part in establishing and efficiently maintaining such an institution, it is powerless to remove patients thither, except with the consent of their parents and friends, who, unfortunately, too often fail to do their part.

Under the circumstances the most that such a hospital can do is to confer the benefits of its treatment on those who choose to accept them; but it is clear that when an epidemic has become so widespread as that of Scarlatina in 1878, the preventive character of the hospital ceases to exert much influence, and it is powerless to restrain such epidemic, however valuable it may be as a mitigating and curative means.

The excellent management of the hospital, the improvements in its arrangements internal and external, and the addition now being made of a spacious, well-lighted, efficiently-warmed ward, will have the effect of increasing the claims of the institution to the favourable estimation of the public. I know, from my own observation, that children enjoy their convalescence there, and are so agreeably impressed by the treatment they receive that they leave it with reluctance, and would like to return, in some instances, with a suffering brother or sister about to go there.

The following statement gives the number of patients treated in the hospital in each quarter and year since its establishment:—

1874	D	ATE.		Sm	all-pox.		Searlatina.	'n	Cotal Cases.
4th Qi		r			194		_		194
_		to the en							
1875				,,,,,,					
1st Qu	arter				186			•	186
2nd	н				169	•••	_	•••	169
3rd	11				<b>5</b> 3		13		66
4th	11				12		7		19
		Totals		•••	420	• • •	20	•••	440
	187								
1st Qu	arter			• • •	2	•••	1		3
2nd	-11				2		4		6
3rd	11	,			2		5		7
4th	##				5		28		33
		Totals	• • •	•••	11		38	• • •	49
	187								
Ist Qu	ıartei				4	• •	20	•••	24
2nd	11			• • •	19		7		26
3rd	11	• • •		• • •	15		13		28
4th	- 11	• • •	• • •	• • •			3		3
		Totals			38		43		81
	187								
1st Q	arte	r			3		13	100	16
2nd	- 11		***		7		34		38
3rd	14				12		139		145
4th	11	•••		• • •	7		238		245
		Totals	•••		29		424		444

### THE DISINFECTING STATION,

situated in Bacehus Road, has been much more used than formerly, as will be seen by the comparative statement below. The operations carried on at the station must be highly useful in arresting the spread of infection in households where cases of disease have occurred, particularly when aided as they are by the disinfection and cleansing of the houses or apartments where the cases of illness originated.

The articles disinfected at the Station in Bacchus Road number 6,976,

against 1,403 last year, and consist of :-

				1878.	1877.
Bolsters and	Pillo	WS		 899	315
Mattresses				 290	126
Blankets				 353	103
Beds				 466	115
Sheets				 424	346
Counterpane	S			 262	68
Other Article	·s			 4,282	330
			Total	 6,976	1,403

The cost of maintaining the establishment during the year has been about £210, viz. :—

				Total	£209	4	0
Coal	***	• • •	• • •	1 * *	 6	0	0
Gas,	for Heating	gand	Lighting		 16	0	0
Horse	ekeep, Shoe	eing,	&c.		 52	0	()
Wage			***		 £135	4	-0

Among the various sanitary agencies by which health is maintained and improved or restored, few are more important than bathing. It is not only healthful in its influence, pleasurable in itself, and agreeable in its results, it is elevating to both the physical and moral being, and, indeed, seems as nearly as possible an unmixed good. In spite, however, of these facts it is most regrettable to find how far from universal is the practice of frequent bathing. Very much has been done of late years by public authorities in the establishment of

### PUBLIC BATHS

to encourage the practice of warm and cold bathing, but at present the opportunities offered have not been embraced with the ardour or even appreciation that could be desired, and the number of the army of the "Great Unwashed" is still lamentably large. One has only to stand for a short time in a crowd, whether indoors or in the open air, to be satisfied, if any doubt previously existed, of the uncleanly condition of the great bulk of the lower Now, looked at from a sanitary, let alone an æsthetie, point of view, this condition of things is a great evil, and one that efforts should be made to remove; the skin is so important a part of the human mechanism, so essential a member of that complex system of vital organs on which comfort, health, and even life depend that the neglect of it is unavoidably fraught with serious consequences. The effects of such neglect may be tardy, but they are none the less sure, and this being so, I would strongly urge, in the interests of public health, the desirability of placing the bath within more easy reach of the masses of the people. In order to do this the charges must first be reduced and ultimately probably it would be necessary to establish more baths. Swimming baths for summer might be constructed very cheaply, but in a climate like ours in which the summers are so short, and in a community made up largely of artizans like that of Birmingham, the greater want is cheap facilities for warm bathing, that is for the use of soap and water. The great point to be secured is not a pecuniary profit on the baths, but the general practice of frequent bathing by the people, and I cannot see why, as in many other sanitary matters, this view should not be acted on. If there should be no direct pecuniary gain to the funds of the Borough, there would be a distinct gain to the comfort, health, and efficiency of the community. With a rapidly-increasing population like ours the practice of bathing ought naturally to increase in at least equal proportion, but I find by a return of the number of bathers at the public baths, kindly furnished me by Mr. Purnell, Superintendent of Baths, that there were between 11,000 and 12,000 fewer bathers in 1878 than in 1876, and above 6,000 fewer than in 1875 as shewn by the following statement.

RETURN OF THE NUMBER OF BATHERS AT EACH OF THE CORPORATION BATHS FOR THE LAST FIVE YEARS:—

	Kent	ST.		Wo	орсоск	ST.	Northwood St.			
	Men.	Women.	Total.	Men.	Women.	Total.	Men.	Women.	Total.	
1874	77138	4796	81934	47317	1889	49206	80801	2899	83700	
1875	105162	4931	110093	73341	2055	75396	100858	2827	103685	
1876	107647	4880	112527	76781	2451	79232	99941	2832	102773	
1877	95428	4397	99825	58432	2012	60444	83844	2153	85997	
1878	106820	6016	112836	64680	2171	66851	101059	2129	103188	

These results are very discouraging, and to my mind shew the necessity of increasing the facilities for bathing. The Romans had a merely nominal charge to their baths, and on certain holiday occasions threw them open to the public free of charge. A proceeding of this kind was highly appreciated and made the most of, it was regarded by the populace as a great treat, similar to the present practice of the throwing open of the continental theatres on certain fête-days, and indeed was used by the leaders of the people as a means of gaining popular favour. I suggest an imitation, suitable to our circumstances, of the excellent policy of our great civilisers, we are slowly copying their system of water supply to towns, as we have long copied many other of their useful models in social occuronics, and we might, doubtless, with equal advantage imitate their policy with regard to the bath.

### WATER SUPPLY.

I have made, as usual, monthly analyses of the Corporation Water, the average analytical results of which show a slight diminution in the quantity of organic matter present, but in mineral matter a slight increase.

The number of well waters submitted to and analysed by me during the year is 509, of these 489 were so polluted that orders were issued for the closing of the wells from which they were derived. At the end of the year as many as 465 of these wells had actually been closed; in order to do this it was found necessary to serve 126 summonses upon certain owners to attend before the Magistrates, many of these summonses, however, never came to a hearing, and, indeed, in the great majority of cases owners of property have consented without the necessity of magisterial proceedings to close wells represented to them as dangerous to health.

### SEWAGE AND REFUSE DISPOSAL.

During the year 1878, 3½ miles of Sewers were constructed in streets taken to by the Corporation, and two miles in streets not taken to.

The advantage to Health of improved Sewering and Draining, together with a better water supply, frequently presents itself, but it received a striking exemplification in the case of a terrace in Argyle Street. This at the end of the year 1877 was the constant abode of much Typhoid, Diarrhea and low-type disease, ten or a dozen cases of illness might always be found there, and the cause was not difficult to discover. There was no proper drainage, for owing to the situation and disposition of the site and its entourage, this was impossible; drains were defective, traps inefficient or absent, the water supply was consequently polluted, and everything around was dirty, damp, and dismal. Last year, however, thanks to the United Drainage Scheme, the construction of a sewer became possible, and was carried out; as if by magic, the condition of things became entirely changed. The air of depression which had previously prevailed gave way to one of cleanliness, cheerfulness, and health, and now the property presents a clean bill of health and a comfortable aspect.

The foul middens in the Borough still continue to be done away with, and pan closets substituted for the privice attached to them.

Those ashpits that are soaking into the adjoining premises, or are in connection with houses where Typhoid Fever or Diphtheria have existed, receive attention first.

During the year 5,992 pans have been introduced; at the end of the year the total number of pan privies in the Borough was 28,660.

### THE PAVING

of the carriage ways and footpaths, particularly of the latter, has been largely extended, and as this is a matter affecting comfort and health, it is a source of satisfaction as well as of hope that the work may be actively continued until the whole town be redeemed from the dampness and dirt and dustiness which the absence of pavement inevitably involves.

The length of streets in the Borough was at the end of the year 194½ miles, of which 157¾ miles had been taken to by the Corporation, and 36½ miles are not at present taken to. In the streets taken to and through private lands the length of sewers is about 142 miles, while in those not taken to, it only amounts to 31 miles. Eleven miles of the carriage ways are now paved and two miles on tramway routes are partly paved and partly macadamised.

I regret to state that the untidy and injurious habit of throwing out slops and refuse of all kinds into the streets continues unabated. On Sunday mornings the state of some streets is particularly bad, having on their surface an extra quantity of refuse of different kinds, including straw, paper, cabbage leaves, and other matters, rendering them very objectionable to the persons who have to traverse them, and positively unhealthy to those who reside in them. I have observed, over and over again, that in these dirty, damp, littered streets the population has always a less healthy appearance than one living in cleanly streets. Sore eyes, pallid countenances, cachectic subjects, persons with their heads or jaws swathed in flannel, are commonly seen in such localities, and are, I feel convinced, principally the result of that particular condition of the streets which I have mentioned. People occupying the front houses are of course the principal offenders, they prefer the ready method of throwing refuse out at the doors on to the streets, to the trouble of carrying it round to the proper receptacles which are provided in every yard, and I hope the reprehensible custom will receive the attention it deserves; it is illegal and therefore preventable, and as it constitutes a considerable sanitary evil, the prevention which is possible should be insisted on and secured.

### MORTUARIES.

In these Institutions fifty-seven bodies, upon which Inquests have been held, have been deposited during the year. The return, furnishing this information and obtained through the Police, is signed by Inspector James Willis, Summoning Officer to the Coroner, who, however, remarks in a foot note, that other bodies upon which Inquests have not been held, have also been taken to the several Mortuaries.

No proper records however, appear to have been kept at the various Stations connected with the Mortuaries, so that I am unable to give with certainty the total number of bodies received into the latter, but Inspector Willis informs me, that from what he can remember from his own observations, he estimates that about seven such bodies were deposited there, making a total of 64, against 65 last year.

The fifty-seven bodies mentioned were distributed among the four Mortuaries as shown in the following Table, which also gives the corresponding statements for the previous year.

	Ü	1878.		1877.	0
Moor Street		 32	 	 32	13
Duke Street					
Kenion Street		 10	 	 8	
Ladywood Road					

It is unnecessary to remark upon the great utility and convenience of these Mortuary houses. They are situated in different parts of the town for the reception of the bodies of persons killed, found dead, or for any other reason requiring temporarily to be disposed of in a convenient and decent manner, such as was impossible before their establishment, and they thus supply a want which for a long time was grievously felt.

The

### SANITARY WORK

of the Borough continues to be rapidly pushed forward, no less than 12,377 notices having been issued for the abatement of nuisances during the year. Nearly 3,200 drains have been efficiently trapped, nearly 2,000 filthy houses cleansed and whitewashed, 1,190 houses where contagious disease had existed, cleansed and purified, 1,447 privies reconstructed, 1,384 ashpits and privies repaired, 930 accumulations of manure, wash, etc., removed, 1,549 drains opened and cleared from obstruction, and 859 sink drains disconnected from the sewer. Full particulars of the work done by the Inspector and his assistants with regard to lodging houses, houses let in lodgings, the keeping of swine and other animals in improper places, smoke, &c., may be found in Table VI., the details of most of which have been supplied to me by Mr. Booker, the Inspector of Nuisances, who, I am glad to acknowledge, has given me much valuable assistance and ready cooperation. The work of the Limewashers includes the whitewashing of 5,173 privies and 3,550 passages, courts, and back yards.

### SLAUGHTER-HOUSES

which are private, number 282, against 278 in 1877 and 1876, and 274 in 1875. One hundred and sixty of them are licensed, and 122 are registered. The number of visits of inspection to Slaughter-houses, seizures of bad meat, and other particulars in connection with the Meat Supply, are to be found under the heading "Slaughter Houses" in Table VI., as furnished by Mr. Birckley, Superintendent of Markets. I regret that nothing has yet been done to supplant these private slaughter-houses by a public abattoir, because, as I have on previous occasions stated, in addition to their being frequently altogether unsuitable and great nuisances, they facilitate the traffic in diseased meat, which a single large abattoir under official supervision would enable the authorities almost entirely to prevent.

I am pleased, however, to be able to report that the Markets and Fairs Committee is exercising and has exercised for some months past every possible care to prevent the licensing of private premises which are not well suited for the purpose of slaughter-houses. It is now made an indispensable condition to further licenses that the proper requirements of space, light, ventilation, water-supply, drainage, and ready and safe access be thoroughly fulfilled, and so the errors of the past, flagrant in many instances, will in future be avoided. It is, nevertheless, much to be hoped that the time is not far distant when the boon of a public abattoir will be accorded.

I remain,

0

Mr. Chairman and Gentlemen,

Your obedient Servant,

ALFRED HILL, M.D.,

Medical Officer of Health.

TABLE I.
BIRTHS & DEATHS (Gross Numbers).

DATE.	BIRTHS.	DEATHS.
1878.	15,964	9,662
1877	16,001	9,038
1876	15,816	8,330
1875	14,862	9,668
1874	14,888	9,665
1873	14,497	8,990
1872	14,123	8,048
1871	13,443	8,594
1870	12,922	7,805
1869	12,779	7,737
1868	12,992	8,548
Average of Ten Years, }	14,232	8,642

### NOTES.

- 1.—Population at Census, 1871, 343,787.
- 2.—Population, estimated to the middle of the Year 1878, 383,117.
- 3.—Area in Acres, 8,400.
- 4.—Number of Inhabited Houses in Borough at Cenus 1871, 68,532.
- 5.—Average number of Persons in each House at Census 1871, 5.0.

TABLE II.

ANNUAL RATE OF MORTALITY, DEATH RATE AMONG CHILDREN, AND DEATHS IN PUBLIC INSTITUTIONS.

				_			_					
Percentage of Deaths in Public Institutions.	11.8	12.2	11.6	11.8	11.8	11.6	12.0	10.9	11.4			
Deaths of Children under 5 years; percentage to total Deaths.	53.1	49.4	46.6	†·6†	1. T.	6.64						
Precentage of Deaths of Children under I year to Registered Births.	17.0	16.4	16.0	19.6	17.8	18.1	16.6	19.0	18:1			
Deaths of Children under I year; percentage to total Deaths.	9. 8.	29.1	30.5	30.6	8.12	29.5	29.1	2.67	29.9			
Annual rate of Mortality per 1,000 living.	25.55	23.9	#.G.	56.3	8-97	24.8	23·1	24.9	23.0	23.1	0.20	\$ 1.4.5.
DATE.	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	Average of 10 Years   1868—1877

# DEATHS REGISTERED IN THE BOROUGH OF BIRMINGHAM, During the Year ending DECEMBER 28th, 1878.

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### TABLE IV.

Mortality from certain classes of Diseases, and proportions to population and to 1,000 deaths in 1878:—

CLASS OF DISEASES.	Total Deaths.	Death Rate per 1,000 of the population.	Proportion of Deaths to 1,000 Deaths.
1.—Seven principal Zymotic Diseases	2,421	6.3	250
2.—Pulmonary (other than Phthisis)	1,751	4.6	182
3.—Tubercular	1,015	2.6	105
4.—Wasting Diseases of Infants	831	2.2	86
5.—Convulsive Diseases of Infants	648	1.6	67

### NOTES.

- 1.—Includes Small-pox, 'Measles, Scarlet Fever, Diphtheria, Whooping Cough, Fever, and Diarrhœa.
- 3.—Includes Phthisis, Scrofula, Rickets, and Tabes.
- 4.—Includes Marasmus, Atrophy, Debility, Want of Breast Milk, and Premature Birth.
- 5. —Includes Hydroeephalus, Infantile Meningitis, Convulsions, and Teething.

SHEWING THE NUMBER OF DEATHS IN THE FIVE YEARS, 1873 TO 1877, FROM THE SEVEN PRINCIPAL ZYMOTIC DISEASES, AND THE NUMBER IN 1878. TABLE V.

Proportion of deaths to 1,000 deaths in 1878.	0.5	5.6	103.0	9.8	47.1	15.2	9.02	250.6	
1878 de de		+9	995	83	4 50 50	147	685	2,421	
Proportion of deaths to 1,000 deaths in 5 years, 1873-1877.	5.02	17.5	44.4	7.5	30.8	19.7	72.9	213.5	163.0
Annual average of 5 years, dars=1877.	189	160	406	69	281	180	999	1,951	12,258
1877	00	309	237	rc 6.1	369	144	457	1,576	10,292
1876	0	87	204	558	189	147	651	1,336	12,565
1875	174	141	265	15 15	438	504	898	2,145	13,411
1874	637	139	737	77	545	201	622	2,652	11,230
1873	125	123	587	107	169	203	728	2,012	11,385
	•	:	:		:		0	•	*
	Small-pox	Measles	Scarlet Fever	Diphtheria	Whooping Cough	Fover	Diarrhœa	Total	London
	Sm	Me	Seg	Dij	W	Fer	Dis	Тол	Lor

### TABLE VI.

### YEAR ENDING DECEMBER 29TH, 1878.

SUMMARY OF NUISANCES AND OTHER MATTERS REPORTED PLISHED BY THE OFFICERS AND MEN EMPLOYED		
ENDED DEC. 31st, 1878.	Work Reported.	Work
Number of cases of Nuisances remaining on the books Dec.	reported.	Done.
31st, 1877	2,986	
Defective Yard or Private Street Drains requiring opening		
and clearing from obstruction	1,501	1,549
Drains not efficiently trapped	$2,945 \dots$	3,195
Sink Drains requiring disconnection from the	0.07	
Sewer	827	859
Spout Drains	$\frac{162}{270}$	118
Nuisances arising from the want of drains	370	366
n n keeping of fowls	432	487
water in cellars foul and defective uringle	$\begin{array}{cccc} 122 & \dots \\ 513 & \dots \end{array}$	186
foul and defective urinals	61	538 69
Houses reported unfit for human habitation	84	48
Houses reported unfit for human habitation Houses Disinfected by the Inspectors where Zymotic	04	40
11 1 1	1,281	1 981
Gisease has occurred Filthy Houses requiring cleansing and whitewashing	1,713	
Houses Cleansed and Purified—paper stripped off the	1,110	1,000
walls, &c	1,281	1 190
Accumulations of wash, deposits of offensive matter,	1,201	1,100
manure, &c	1,090	930
Swine and Swine Styes so kept as to be a nuisance	269	486
Foul Ashpits and Privies requiring repairs	1,257	1,384
Privies requiring re-construction	1,541	1,447
Houses not having sufficient privy accommodation	907	872
Back Yards requiring paving	$621 \dots$	615
Filthy Workshops requiring limewashing	16	77
Privies requiring cleansing and limewashing	5,450	77
Number of Privies limewashed by our own men		5,173
Courts, Passages, and Back Yards ditto	3,639	3,550
Miscellaneous premises limewashed by our men		<b>2</b> 89
Nuisances arising from the want of ashtubs	183	469
coverings for ditto	158	177
water	109	162
inefficient ventilation	137	153
foul dumb wells	3	9
When to Washhouses	$2 \dots$	5
Number of Nuisances remaining on the Books under		1.007
notice, December 31st, 1878		1,934
Total	29,660	29,660
-		
Number of Notices issued for the abatement of Nuisa		77
during the year ended Dec. 31st, 1878	12,3	
Number of cases dealt with by the Magistrates  Amount of Fines	45	_
Amount of Fines	£20 0 55 14	0
	<i>99</i> 14	9
	£75 14	9
	210 11	

### TABLE VI.—Continued.

	WE	LL WA	TER	S.			
No. of Well Waters submitt					alysis		509
No. of Wells reported as pol					• • • •		489
		• • •			• • •		465
No. of Premises supplied wi							496
No. of Persons dealt with by		_			• • •		126
Amount of Costs						£18	3 16 0
COMM	ION	LODGI	NG I	HOUSE	ES.		
Houses Registered		• • •				• • •	438
Number of Lodgers allowed	in the	Houses					8,913
Number of Visits by Day		• • •			• • •	٠	8,027
" Night						• • •	3,148
HOUS	SES ]	LET IN	LOI	OGING	S.		
Houses Registered	• • •	• • •					772
No. of Lodgers allowed in the	e Hou	ises	• • •		• • •		4,289
	LAU(	GHTER	НОГ	JSES.			
No. of Slaughter Houses	• • •	• •		• • •		• • •	282
							12,072
Seizures of Bad Meat							302
		• • •					,435lbs.
Seizures of Fish, &c	• • •	* * *	* * *	• • •	• • •	* * *	115lbs
C	MOT	TS NUTTE		arra			
		E NUIS				3 C	
No. of registered Proprieto				_			1.091
manufacturing purposes							1,03!
No. of Chimneys  No. of Notices served for the							1,531
No of Observations made by							1,031
No. of Chimneys emitting 1							11,49
hour, the Occupiers of							13
No. of Chimneys emitting k						in the	10
liour							42
No. Cautioned						• • •	20
No. Summoned							22
No. excused by the Magistra				• • •			1
No. Convicted				• • •			21
Amount of Penalties			• • •			£14	
costs		• • •				8	
					P 4 6	S	1 10

### TABLE VII

# QUARTERLY SHEET FOR THE WHOLE YEAR.

WEEKLY REGISTER OF DEATHS IN THE BOROUGH OF BIRMINGHAM,

From DECEMBER 29th, 1877, to DECEMBER 28th, 1878.

Total for the Year.	다 우리 우리 아니는 그 수 있다. 가능한다. 아줌과 있다. : : 155mm의 다.	1588 1588 142 839 839	다음보다 나는 문문 수는
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### BIRMINGHAM, OF BOROUGH THE II REGISTERED DEATHS

## During the Quarter ending JUNE 29th, 18'

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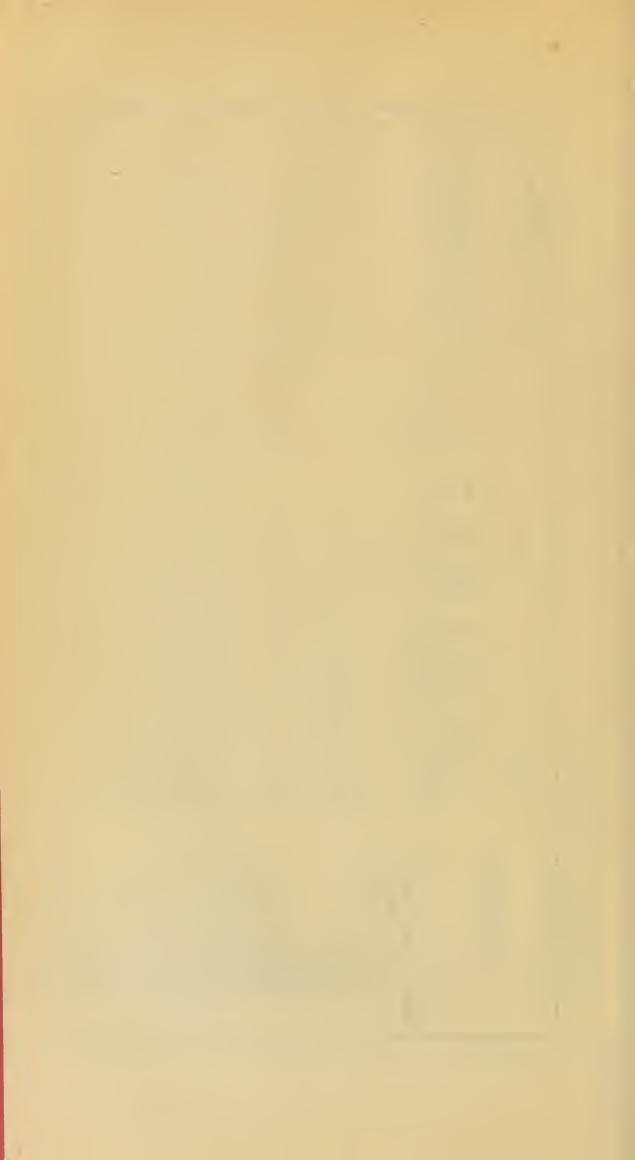
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## TABLE XII.

METEOROLOGICAL CONDITION OF THE AIR, AND AMOUNT OF RAINFALL FOR THE YEAR ENDING DECEMBER 28th, 1878.

Observed at 63, Bloomsbury Street, Birmingham, at 8.0 a.m., by D. Smith, Esq., F.R.A.S.

The Instruments are considered to be 340 feet above the mean level of the sea.

From the returns of the Registrar-General, the area within the Municipal Boundary of the Borough of Birmingham is taken at 8,400 acres, and the population estimated to the middle of the year 1878, at 383,117.

	Pressure of Air.	TEMPE	RATURI	E OF TH	HE AIR	Gauge Receiving	RAINFALI 8 inches di surface 8 in	ameter. ches above
1878.	Barometer	Read	ling of T	hermom	eter.	Depth of	the ground	Number of
	Mean Monthly Reading (corrected and reduced to 32 degrees Fahrenheit)	Highest in Shade.	Lowest in Shade.	Range of Temp erature in the Month	Mean Tempe- rature in the Month	Raiu deposited upon a square foot of surface, in inches and parts.	ment converted	Days on which Rain tell, when to this of an inch or more was measured.
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Feb.	29.847	61.0	28.0	33.0	40.1	1.11	112	8
Mar	29.755	59.0	27:3	31.7	43.6	1.17	119	9
April	29.445	67.0	30.0	37.0	48.3	2.17	219	11
May	29.368	70.0	39.0	31.0	54.7	5.33	539	21
June	29.545	89.0	43.0	46.0	60.8	3.37	340	14
July	29.665	90.3	48.8	41.5	63.7	0.98	99	7
Aug.	29:384	77.0	46.3	30.7	62.0	6.44	650	18
Sept.	29.587	73.0	36.3	36.7	56.9	3.15	318	13
Oct	29:364	70.6	33.2	37.4	52.2	3.66	370	16
Nov.	29:396	51.1	29:0	22.1	39.4	3.15	318	11
Dec	29:320	52.8	10.4	42.4	31.2	2.44	246	11



RAINFALL AND TEMPERATURE IN EACH MONTH AND YEAR FROM 1868 TO 1878. TABLE ALLI.

COMPILED FROM OBSERVATIONS MADE AT 63. BLOOMSBURY STREET, BIRMINGHAM, BY D. SMITH, E86, F.R.A.S.

	Temperature.	43.5	1.04	43.6	48.9	0 1	).1:0	8.09	63.7	62.0	56.9	25.5	39.4	31.2	49.6
1878.	No. of days on which of the or an inch or an inch or note we started.	-11	00	6	F	1 8	7		1~	18	13	16	11	=	150
	Helnish	1.96	1:11	1.17	0.17	117	0.33	3.37	86.0	FF. 9	3.15	3.66	3.15	2.44	34.93
years 7.	Temperature.	39-9	40°4	43.5	17.3			2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	6.19	61.3	£.9g	79.5	42.6	39.3	6.65
for 10	No. of days on which of belonds of an inch or more was measured.	13	-==	12	c	n (	2	G	6	a	12	12	10	14	129
Average for 10 3	.llslaistl	2.99	5.34	2.18	20.0	3 3	07.7	5.36	3.14	2.23	3.77	3.24	2.27	3.51	32.50
	Temperature.	8.23	2.77	8.01	9	0 64	20	59.0	8.69	0 09	53.7	49.1	35.	41.3	49-1
1877.	And an event of the cox of and an inch of the following th	38	61	10	2	21	a.	10	12	10	13	12	15	1	149
	.Historiasi	2+·+	2.43	2.72	0.00	20 1	7 01 01	5.96	5.03	5.53	8c.#	1.01	2.87	2.40	36.75
	Temperature.	36.1	9.68	40.8		4. n	18.1	58.0	2.89	2.59	2.99	53.0	43.4	45.6	7.6F
1876.	Xo ut days on which of 5-1001bs of an inch or more man inch or more of the control of the contro	9	Ť	2.5	C	2 1	÷	00	9	20	27	6	00	19	136
	.Ilminfall	1.75	2.25	3.16		. 58 . 1	1.00	5.53	1.45	1.22	5.83	5.56	76.7	2.68	32.05
	Temperature.	0 #	36.0	1.09		č. /#	54.8	28.0	6.89	62.0	59.3	f. 11	41.9	39.1	49.1
1875.	No of days on which 5-tool to so an inch or more was measured,	16	10	10		<u></u>	12	15	13	~	14	16	10	10	135
	Hanniaff	3.12	1.675	18.0		1.03	5.10	3.915	8.14	1.80	3.89	7 -21	3.31	1.45	38.51
	Temperature.	. 13	38.5	3.4.6	P 1	50.5	20.09	28.2	0.79	60.1	F.99	51.2	9.15	33.9	49.0
1874.	Xo, of days on which 5-toolhe of an inch of more was mensured.	10	0.	9.5	2	10	7	13	00	7	13	12	10	16	131
	.Ilalniasi	1.86	9.685	61.1	N -	1.45	3.54	1.13	1.26	1.985	4.545	2.71	1.45	4 375	28.41
	Temperature.	0.5	100		8.60	9.94	9.09	58.5	62.3	61.1	£.82	8:17	0.2₹	41.3	9.84
1873.	No. of days on which or fillers on inch or near inch or near more was mich or near the control of the control o	6.	=		#	-1	12	6	11	18	90	0	10	10	133
	.Untrinst	81.1	92.1	2 0	99.7	22.0	2.242	1.65	5.16	3.435	2.13	1.86	1.83	0.975	29.255
	Тетпретитите.	° 40.4	0.07		0.44	9.4	6.64	58.3	0.09	60.3	0.10	47.1	£.	41.1	8-67
1872.	6-looths of days on which or follooths of an inchested.	- 6	10	2 5	77	10	11	15	Ξ	10	00	19	18	17	167
	Helnies	100	0.410	071.0	2.365	3.925	2.265	5.770	3.565	3-810	2.645	4.650	3.475	4.505	45-135
	Temperature.	0 00	1 0	1 1		9.45	53.6	7.79	59.5	2.19	55.5	9.67	27.78	0.68	49.0
1871.	Vo. of days on which or stone or mensured,	9	•	5	00	10	2	11	17	9	1	120	~#	6	113
	.IlahaiaM	10,40	707.1	001.1	1.540	3.850	2.165	3.005	4.550	2.180	6.010	1.955	0.835	1.615	30.620
	Temperature,	0	33.0	0.98	9.07	T-67	53.9	2.09	64.5		55.4	20.2	2.07	8.75	£8.
1870.	to of days on which fooths of an luch ur nore was measured.	9 9	2	2	9	r0	1~	-41	10	10	1	16	Ξ	13	102
	Hainfall.		2 2 2 2 2	5.300	1.660	0.915	1.300	0.785	1.270	1.720	0.800	6.215	2.195	2.205	23.650
	Temperature.		9.14	45.3	36.5	49.8	2.09	56.4	9.89		Ċź	9.	44.3	36.5	49.3
1869	o. of days on which to the following or an inch or an i	u -9 X	21	13	0	00	17	-1	. 6	1 00	23	00	6	13	119
	HelnicH		3.460	3.075	2.200	1.825	5.745	1.910	0.580	1.960	4.105	099.1		4.005	31-460
	Гетрегаture.		97.9	43.1	Ţ. <del>†</del> †	47.9	6.99	ė,	, e.	9 ?	9 12				20.8
000+	of the son which or of the solution of the sol	01 0 N	15	12	12	6	10							61	116
	.llslnisA		2.290	1.890	2.920	1.935	1.675	1 9			3 0			4 9	29.620 116
	MONTH.		January	February	March	April		:	:	:	:			December	YEAR



TABLE XIV.

NEW CASES OF DISEASE COMING UNDER TREATMENT DURING THE YEAR ENDING DECEMBER 28TH, 1878, AT THE FOLLOWING INSTITUTIONS, &c.

DIGETORG	I.	II.	111.	IV.	v.	VI. Out-door	VII.	
DISEASES.	General Hospital.	General Dispensary	Queen's Hospital.	Children's Hospital.	The Work- house.	Pauper Patients.	Boro' Hosptl.	TOTAL.
Small Pox			•••			3	20	23
Measles	7	21	11	10	11	13		73
Searlet Fever	68	95	51	205	•••	281	424	1,124
Diphtheria	6	7	16	32	1	3		65
Whooping Cough	17	31	33	1,247	83	87		1,498
Croup	4	1	5	7	1	1	•••	19
Diarrhœa	1,044	107	388	2,441	92	372		4.444
Dysentery	4	1	1	1	•••	••		7
Asiatic Cholera	•••		•••	• • •	•••	***		•••
Erysipelas	28	18	44	18	26	21		155
Continued Fever			••		•••	•••	1	1
Typhus				•••		•••		
Typhoid	32	34	30	58	25	•••		179
Relapsing		•••	•••		•••	3		3
Febricula	29	12	29	344	10	348		772
Ague	4	•••	4			•••	•••	8
Rheumatic Fever	41	52	78	6	2	46		225
Puerperal Fever	• •	3	•••	•••	•••	17		20
Bronchitis & Catarrh	670	1,010	900	2,502	498	1,696		7,276
Influenza	1	59	4	11		•••		75
Pleurisy & Pneumonia	98	117	103	123	25	32		498
Phthisis	425	959	523	105	201	170		2,383
Constl. Syphilis	302	94	373	263	266	20		1,318
All other Diseases	14,427	9,714	9,799	9,383	2,901	3,453		49,317
Accidents	10,435	106	6,642	85	96	9		17,373
Totals	27,282	12,441	19,034	16,841	4,238	6,576	444	86,856

The above returns are made by (I.) Howard G. Lowe, Esq.; (II) J. H. Palmer, J. M. Taylor, and C. Gosling, Esqrs.; (III.) J. Spofforth, Esq., M.R.C.S., and J. Wood, Esq.; (IV.) W. Rhodes, A. Cardew, M.R.C.S., and T. Richards, Esqrs.; (V.) A. B. Simpson, Esq., L.R.C.S.; (VI.) V. G. Coulton, Esq., Clerk to the Guardians; (VII.) William Bates, Esq., B.A., Surgeon to the rough Hospital.

## TABLE XV.—WATER: RESULTS OF ANALYSIS

				1	
Date of Receipt of Sample.	DESCRIPTION.	Temp. C.	Total solid Impurity.	Organic Carbon.	Organic Nitrogen
	THE STATE OF THE PROPERTY OF T				
1878.	CORPORATION SUPPLY.	6°·6	26.30	.248	.079
Jan. 10th	Rear of 46, Miles Street	6°·1	33.08	.081	.024
Feb. 5th	2 Court, Skinner Street	6°·1	31.36	.118	.029
Mar. 5th	21 Court, Heneage Staces	6°.7	24.30	.303	.047
April 10tl	19 Court, Lancaster Street	120.2	21.46	.130	.044
May 7th	1 9 Court, Paratrongh Succes	20°·0	24.90	.143	.073
June 12th	16 Court, Carver Succes	170.2	20.20	·372	.081
July 12th	12 Court, Bordesley Bullet	17°·7	33.80	.139	.031
Aug. 12th	27 Court, Sheriock Socoo	16°·1	26.00	.141	.051
Sep. 11th	o Court, vallenan road	11°·1	27.00	.238	.032
Oct. 11th	1 36, Gibb Street	6°·1	24.80	·355	.059
Nov. 13th	Rear of 25, Lord Doroco	30.9	27.80	·374	.047
Dec. 13th	102, Dance 1 to	10°·8	26.75	.220	.050
	Average results, 1977	10°.9	25.14	.279	.051
	1976	100.0	25.13	.266	.063
	1975	9°.8	27.70	.285	.082
1878. Jan. 7th	WELL WATERS. Stone's Buildings, College St. (Whooping)	• • •	87.0		rather large
	84 and 85, Aston Road (Measles)		95.0		11
11 11	19 Court, Aston Road (Measles)		114.8		moderate
11 11	Cellent Grove, Hooper Street (Scarlet)		130.0		11
11 11	Lee Crescent Ter., Lee Crescent (Whooping)		80.8		rather large
11 11	3 Ct., & No. 60, Up. Gough St. (Measles)		132.0		very large
1 " "	Springfield Terrace, Spring Street		66.0		moderate
11 11	67 Gough Road		61.0		large
11 9th	3 and 4 Courts, Hollier St. (Whooping)		195.8		very large .
11 11	St. Michael's Ter., Factory Rd. (Scarlet)		122.0		II
11 11	5 Court, Long St. (Whooping Cough)		229.8		moderate
11 11	5 and 6 Courts, Kent Street North		196.0		large
10th	24 Court, Lower Tower Street (Whooping)		211.0		very large
11 11	13 Court Lancaster Street		246.0		11
11 11	22 Court, Bordesley Street		162.8		very large
11 11	5 Court, Newtown Row		267.0		1
11 11	8 Court, Vauxhall Road (Scarlet Fever)		185.8		very large
11 11	1 Court, Cotton Row		283.0		
" 15th	20 Court, Alcester Street (Measles)		248.2	• • • •	large
11 11	13 and 15, Sun Street West (Whooping)		61.1		11 3
11 11	1 and 2, Florence Villas, Dolobran Rd.		62.0		very large
11 11	3 and 4, 11 11 11 11		62.0		11
11 11	361, Pershore Road		100.0		11
17th	363 and 364, Pershore Road		101.0		11
11 11	22 Court, Gt. Russell Street (Fever)	* * •	94.2		11
11 11	34 Court, Summer Lane (Whooping Cough)		234.0		11
	134, Icknield Square, and 261-265,		000		
11 11	Monument Road (Scarlet Fever) 168 and 169, St. Vincent Street	• • •	69.0		moderate
0 0	18 and 19, Cattell's Grove (Diarrhea)	• • •	76.0	• • •	11
u u	1 41 and 42. Austin Stroot (Whooping)		120.0		very large
- $0 - 22$ nd	or, fream Street ([vphoid])	• • •	79.4	• • •	rather lavg
11 11	4 and 48, Ickmeld Su (Scaplet Revent)	* * *	80.2		very large
Ft st	Tai and 40, Loure Road (Magalan)		113.0		**
11 11	1 Court, Sheriock Street	• • •	75.0	• • • •	rather large
11 11	Triston Street (Two least)	• • •	67:0	• • •	
11 11	11 Court, Barford St. (Whooping Cough)	• • •	$\begin{vmatrix} 67.0 \\ 363.4 \end{vmatrix}$		rather larg
	1 3 5 (811)		000 4		11

## EXPRESSED IN PARTS PER 100,000.

	Nitrogen		Previous			Hardness.		
mmonia	as Nitrates	Total Combined	Sewage or Animal	Chlorine.				DEMARKS
rimmonia	and Nitrites.	Nitrogen.	Contam- ination.	Chiorine.	Tempor-	Perman-	D. C. I	REMARKS.
	Tricines.		(Estimated)		ary.	ent.	Total.	
.004	.341	•423	3120	1.9	8°·3	70.7	16°·0	Clear
.002	.220	.245	1890	1.4	70.4	10°·0	170.4	Clear
.001	.209	•238	1780	1.4	90.3	9°.5	18°·8	Clear
.002	·321	.369	2890	1.9	6°·1	70.7	13°.8	Slightly turbid
.005	.220		1920	1.9	4°.7	90.3	14°·0	Turbid
.003	.198		1680	1.9	70.2	7°·3	14°.5	Clear
.004	.143		1140	1.5	5°.9	6°·1	12°·0	Clear
.005	.209		1810	1.7	13°·1	7°·1	20°·2	Clear
.002	.099		686	1.7	70.8	80.7	16°·5	Slightly turbid
.003	.110	•144	800	1.5	100.9	90.3	20°•2	Clear
.003	.209	270	1790	1.6	90.0	60.0	150.0	Rather turbid
.003	.330		3000	2.0	90.1	100.1	190.2	Nearly Clear
.003	.217	•269		1.78	9°.2	8°.2	170.4	
002	•261	253	1	1.65	70.2	80.3	150.5	
.002	•230				60.3	100.2	160.5	
.0025	.166	.250	1420	1.78	60.9	12°.5	190.4	
.000	0.00	0.20*	01790	10.0				Class
$006 \\ 007$		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		1		• • • •	• • • •	Clear
.007	1	663				•••		Clear
.048		6.639				4		Clear
.003		3.33	33000		1	• • •		Clear Clear
.004		3.083			•••	• • •	• • •	Clear
.004		2.863		_	• • •	***	•••	Clear
.005		1.324					• • •	Clear
.004		6.053		1				Clear
.005		6.722						Clear
.004			105310					Clear
.004	6.60	6.603						Clear
.006	10.56	10.563	105310					Clear
1.000	6.60	7.423						Clear
.007	1	5.176						Clear
.085		9.966						Clear
.004		7.703						Clear
.300		4.977					• • •	Clear
.006		9.355	1	1				Clear
.018		2.765	1			• • • •	• • •	Clear
.005	1		0		•••		• • •	Clear
.004		2.505	24020				• • •	Clear
.006		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			• • •		• • •	Clear
.006		$\frac{3.929}{2.756}$			0.5			Clear   Clear
.003		$\frac{2.730}{2.422}$		1	• • • •		• • •	Clear
000	2 72	2 722	20000	30 0		•••	•••	Oreat
.004	2.53	2.533	25010	6.7				Clear
.002	l l	3.742			}			Clear
.004		3.303	1					Clear
.004		2.313	1					Clear
.007		3.506						Clear
.250		4.606						Clear
.005		3.524						Clear
.030		3.985			1			Clear
.006		3.415				• • •		Clear
.020	3.52	3.536	35040	) 29.5		٠		Clear

				I	1	1
Rece	te of ipt of nple.	DESCRIPTION.	Temp.	Total solid Impurity.	Organic Carbon.	
-		The section of the se				
1	78.	WELL WATERS(continued).		171.2		
Jan.	23rd	314 and 315, Coventry Road (Scarlet)		208.0		ratherlar very execssive
- 11	11	10 Court, Emily Street		131.0		large
11	11	140-140, Olango House		96.0		very larg
11	11	114 and 115, Greenway Street 24 Court, Darwin Street		202.0	• • •	tery rang
- "	11	48 and 49, Hawkes Street		101.4		11
11	28th	53 Court, Farm Street		261.2		• ti
"	2011I	62 and 63, Long Acre		156.0		11
11	11	Claremont Place, Dolobran Road		50.0		11
"	11	Hampstead Place, Dolobran Road,				
1 "		(Whooping Cough)		56.0		rat he large
11	н	1, Winson Green Road		99.0		
0	30th	111 and 112, Sampson Road		111.3		very.large
11	11	64 and 65, George Street West, and				
		37 Court, Prescott St. (Typhoid)	• • •	39.0	• • •	moderate
11	11	53 and 54, Park Road	• • •	198.0		very large
Feb.	lst	17 Court, Bell Barn Road (Fever)		140.0		ratherlarg
11	11	27 Court, New John St. (Scarlet Fever)	• • •	190.4		• • •
11	5 h	Back 100, Cuckoo Road		133.2		very large
11	11	101—105, Cuckoo Road		128.0	• • •	11
11	11	1, Lorne Terrace, Argyle Street	• • •	82.0		• • • •
- 11	11	2, Lorne Terrace, Argyle Street	• • •	80.0		• • • •
'1	†I	4 and 5, Sampson Road	• • • •	120.0		very large
91	19	The Hollies and The Laurels, Hick-		50.4		
	1541.	man Road	• • •	72.4		
- 11	15th	9 Court, Navigation Street 12 Court, Suffolk Street		141·0 112·0	• •	very large
11	11	12 Court, Suffolk Street 2 4 Court, Ryland Street, and 7 Court,	• • •	1120		• • •
111	11	Danwin Street		322.2		
11	11	13 Court I amband Street	1	203.0	• • •	• • •
1 "	11	1 Court, Upper Highgate Street, and 8		2000	• • •	very large
		Court I conold Street (Wheeping)		136.0		
11	11	41—45, Oughton Place (Whooping)		163.4	• • •	19
11	20th	8 and 9, Frank Street (Typhoid)		178.6	• • •	11
11	17	43, Priestley Road (Typhoid)		75.8	• • •	11
- 11	11	12 Court, Cheapside (Diarrhoa)	•••	321.8	* * *	11
11	21st	23 & 24 Courts, Wheeler St. (Scarlet)		166.0	• • •	
11	11	23 & 24 Courts, Wheeler St. (Scarlet)		54.8		
11	- 11 -	117, Great King Street (Scarlet Fever)		165.4		
- 11	25th	17 and, 18, Newdegate Street	1	159.6		
11	H	2 Court. Meriden Street (Whooping)		202.8		
11	11	8 Court, New Canal Street (Diarrhorn)		919.1		
- 11	26th	5 Court, Allison Street		334.0		
11	H	245 & 246, Bell Barn Road (Scarlet)		66.8		atherlass
11	27th	42 Court, Cromwell Street		197.4		very large
11	(III	1 Court, Tower St. (1st pninp) (Scarlet)	1	152.6		very large
1 11	11	1 Court, Tower St. (2nd pump) (Scarlet)		165.8		
11	11	22—25, Rodway St. (Whooping Cough) 36—41, All Saints' Road		47.8		moderate
H	11	2 Court, Farm Street (Fever)		102.0		very large
11	11	23—25, Piddock St. (Whooping Cough)		135.8		
*		(Whooping Cough)	• • •	148.4		very large

	Nitrogen as Nitrates	Total	Previous Sewage or Animal			Hardness.		
Ammonia	and Nitrites.	Combined Nitrogen.	Contam- ination. (Estimated)	Chlorine.	Temporary.	Permanent.	Total.	REMARKS.
·800	7.81	1			ķ	• • •		Clear
.008	4.40		43740			• • •	• • •	Clear
.006	3.08		30530	8.8		•••	• • •	Clear
.009	4.62		$45950 \\ 55090$	$\begin{vmatrix} 9.0 \\ 22.1 \end{vmatrix}$	• • •		• • •	Clear Clear
·050 ·008	5.50 $3.30$		$\frac{33090}{32740}$	$\frac{22.1}{9.0}$	•••	•••	* * *	Clear
1.120	$\frac{3.30}{3.41}$	$\frac{3}{4.330}$	43000	31.9			•••	Clear
145	3.30		33050					Clear
.010				1.4				Clear
				_				~1
.007	11			2.2		• • •		Clear Slightly turbid odour
.040	.55	.583		22.4				of naphtha
.009	trace	• • •	0	16.0	•••	•••	• • •	Slightly turbid
.004	1.10	1.103	10710	5.4				Clear
.008	1	11.007	109750	22.8				Clear
.016	7.15	7.163	71310	15.7				Clear
.100	5.50	5.582	55500	21.8				Clear
.006		_					•••	Clear
.006		1			• • •	• • •	• • •	Clear
.046		_			•••	• • •	. • •	Clear Clear
.015			1		• • •	•••	***	Clear
.005	1.87	1.874	10±20	12.1	•••	***	• • •	Olear
2.080	trace	1.706	16740	6.2				Turbid, yellow, odour of Sewage
.007				23.0				Clear
.004	4.29	4.293	42610	11.3				Clear
01.0		0.500	05010	20.2	1			Clear
·016	1	1	1		• • •	•••	•••	Clear
.000	5.20	9.908	0 1100	19.9	•••	• • •		Officer
.004	1.34	1.433	14010	14.2				Clear
.002								Clear
.006	1.10	1.108	10730	14.4				Clear
.005			1					Clear
.005		1	131690					Clear
2.050						• • •	•••	Clear Clear
120			1		•••		• • •	Clear
·250					•••		•••	Clear, residue brown]
.540				1		• • •		Clear Clear
.030								Clear
1.800		1	3 11131	1				Clear, residue brown
.00	l l							Clear
.00								Clear
.00		1						Clear
15				0 19.7		• • •	•••	Clear Clear
.00							•••	Clear
01					•••			Clear
.00		1	1	i	*			Clear
00		1 1 31	1 1032		•••			
1			1			_		

Date Receip Sam		DESCRIPTION.	Temp. C.	Total solid Impurity.	Organic Carbon.	Organic Nitroger
7.05	70	WELL WATERS—(continued).				
187	5th	159 and 160, Ledsam St., and 171 and				
Mar.	9 HI	172, St. Vincent St. (Scarlet Fever)		119.6		very large
		8 Court, Kent Street, (Scarlet Fever)		114.8		ratherlarg
11	11	40 & 41 Cts., Irving St. (Scarlet Fever)		105.8		moderate
11	- 11	22 and 224, Hick Street		132.0		rather
11	11	5, Glover Street (Diarrhea)		222.0		very large
11	H	2 Court, Lawley Street		244.4		very large
11	7th	22, Friston Street (Scarlet Fever)		150.6		rather large
11	11	38 and 39, Cambridge St. (Diarrhea)		149.8		1.61.4.0
11	11	14 & 15, Turner St. (Whooping Cough)		123.8		
9.f 9.f	11	43 and 44, Cregoe Street		146.0		large
11	11	73 and 74, Summer Rd. (Diphtheria)		177.4		very large
11	15th	191 and 192, Cheapside		269.6		tery marg
11	10011	62—68, William Edward Street		151·S		11
	11	22 and 23, Adelaide Street		108.0		
11	11	79—82, Bridge Street West		64.8		moderate
11	11	12 Court, Inkerman Street		164.4		large
11	18th	101—105, Cuckoo Road		132.6		
11	11	Back 106, Cuckoo Rd. (Scarlet Fever)		90.8		
11	11	33 and 34, Lee Crescent		42.0	• • •	very larg
11	19th	Edgbaston Ter., Bell Barn Rd. (Typhoid)		158.8		moderat large
11	11	13 Court, Bell Barn Road (Typhoid)		164.4		rather
11	22nd	79 and 80, Freeth Street (Diphtheria)		103.6		large
11	11	9 and 10, Spring Hill		124.8		
11	11	110 and 111, Inkerman Street		81.8		
11	11	112 and 113, Inkerman Street		86.0		rather
11	23rd	47 and 48, Great King Street		80.8		large
H	11	82 & 83, Well St. (Whooping Cough)		123.9		
11	26th	4 Court, Leunox Street (Fever)		107.6		
11	11	21 Court, Aleester Street		198.8		moderat
11	11	4 Court, Conybere Street (Measles)		174.8	• • •	very larg
11	11	30-33, Sandy Lane (Small-pox)		122.0	•••	small
11	11	61 and 62, Main Street (Diarrhoea)		113.8	•••	
11	29th	78 and 79, Well Street (Whooping)		67.4	• • •	very larg
11	11	19 Court, Bromsgrove Street	• • •	146.6	***	
11	11	18—20, Court, Bromsgrove Street		204.8		very lar
1)	11	6 Court, Lancaster Street (Diarrhea)		148.0	• • •	• • •
11	11	103 and 104, Bridge Street West		64.8	•••	* * *
- 11	11	97 and 98, Burbury Street		264.4	• • •	• • •
Apri	l 2nd	81 and 82, Balsall Heath Road		93.6	• • •	
11	11	68—70, Bloomsbury Place		197.6	•••	
11	11	11, Varna Road		129.0	• • •	very lar
11	11	22 and 23, Henry Street		192.8		large
11	11	154159, Ashted Row (Typhoid)		204.4		-
11	11	1 Court, Canal Street (Searlet Fever)		266.0	• • •	very larg
11	5th	104 and 105, Inkerman Street (Scarlet)		114.6	• • •	
11	F.f.	117, Wheeley's Road		147.6	• • •	very lan
11	11	1 Court, Palmer Street		251.0	4 * *	large
11	11	62 and 63, Navigation Street		156.8	• • •	very lar
f.	11	5 Court, Curzon Street		72.4	• • •	11
17	11	285 and 286. Watery Lane		146.0		lance
				1100		large

	····	Nitrogen as Nitrates	Total	Previous Sewage or Animal	Chlorine.		Hardness.		DIMARY
A	nmonia	and Nitrites.	Nitrogen.	Contamination. (Estimated)	Cinorna.	Temporary.	Perman- ent.	Total.	REMARKS.
-									
	.009	9.68	9.687	96550	12.4				Clear
	.009	6.60	6.607	65760	14.6				Clear
	.005	5:39	5.394	53620	13.5				Clear
	.005	1.98	1.984	19520	6.3				Turbid
	.006	2.20	2.205	21730	48·1				Clear
	.005	4.40		43720	27.9				Slightly turbid
	.005	6.71	6.714	66820	14.0	• • •	• • •	• • •	Clear
	.036	1.76	1.789	$\frac{17570}{28910}$	$37.3 \\ 1.1$	• • •	* * *	• • •	Slightly turbid
	$\frac{.210}{.005}$	$\frac{2.75}{3.85}$	$\frac{2.923}{3.854}$	$\frac{26910}{38220}$	16.2	• • •	• • •	• • •	Clear   Clear
	.000	7.15		71230	12.6	• • •	•••	• • •	Clear
	.006	13.53		135330		• • •			Clear
	.005	$\frac{13}{2} \cdot 20$			)				Clear
	.002	3.3	3.301	32690					Clear
	.002	L		27190	8.1				Clear
	.003	1		60204	10.8				Clear
	.027	4.95	4.972	49400	9.0				Clear
	.005	2.20	2.204		1				Clear
	.002	.88		1				• • •	Clear
	.003	6.60			1	,	• • •		Clear
	.002		1	65690					Clear
	.005							• • •	Clear
	.040	Į.		1	1	• • •	• • •	• • •	Clear
	.020					•••	• • • •	• • •	Clear Clear
	.004	3.30	1				• • •		Clear
	.004	4.18			•		• • •	•••	Clear
	.050			19680		• • •	•••	• • •	Clear
	0.012					•••	•••		Clear
	.004	$\frac{0.32}{2.75}$		4			• • •		Clear
	.001	$\frac{2\cdot64}{2\cdot64}$			1				Clear
	.003								Clear
	.002			22890					Clear
	.010								Clear
	365								Clear
	.015		4.962	49300					Clear
	.420							• • •	Clear
	2.850			144090			• • •	• • •	Clear
	.800		1						Clear
	.007			142740					Clear
	.003						• • •	• • •	Clear
-	.004						• • •		Clear Clear
	.004					• • • •	•••	• • •	Turbid
	150	3						• • •	Clear
	$\frac{.005}{.003}$		1			• • •			Clear
	006	1		120730		• • •			Clear
	000			1					Clear
	.050								Clear
	.005	1							Clear
	-00	0.50					ł		
-								OC PURSUE CONTRACTOR	

Date of Receipt of Sample.  DESCRIPTION.  Temp. C.  Total Solid Impuity, Carbon.  Nitro  Nitro  1878.  WELL WATERS—(continued).	
1878. WELL WATERS—(continued).	
April 9th 2 Court, Pershore Street 77.6	.
Ryland Ter., Ryland Street, Deritend 215.6 lar	rge
8 Court, Vaughton Street (Scarlet) 197.0	
116.0 lar	
" 134, Icknield Square, and 339—343,	070
C7 and C9 Deep Street (Whooping) 74.0	
12th 136 and 137, Inkerman Street 201.6	
"   4 Court, Curzon Street (Scarlet Fever)     89.0	]
n n 14 Court, Bordesley Street 179.8	
86:0	large
" 7 and 8, Adelaide Street 136.0 very 1	- 1
15th 20, Cambridge Crescent 86.0	- 1
" " 137 and 138, Bath Row 134.6	
	large
118 and 119, Wheeley's Road       163.0	
20 101 12 4 12 2	
2 Count Norfelle Ctreet (Direkthonia) 155:0	large
" 25th 149 and 150, Well Street 67.6	
	• •
	• •
OCAL OF Carellhands Charact	large
15 - 11C Drietal Charact	
11 13 Court, Warwick Street (Diarrhoa) 234.6 mode	erate
	large
314 Brodford Street (Secondst Verson) 37.8	rge
Darolico Torresco Dorrin Street	
Ct.l. C	large H
May 1st 76 and 77, Long Acre, and 53 and 54,	
	rge
" " 91—94 Lord Street	11
" " 17 Court, Nelson Street South, and 88	• •
and 89, Sherlock Street (Scarlet)  271.0	
" " 11 Court, Navigation Street (Scarlet)   178.0     rerv	large
u u 228 Nechells Park Road 110.0	essive
u u 29-32 Vale Street	
" " 83, Smallbrook Street 169.0	y large
" " 84, Smallbrook Street 172.0	11
	nge
" 5 Court, Vale Street	• • •
" " 6 Court. Vale Street	

		Nitrogen as Nitrates	Total	Previons Sewage or Animal			Hardness.		
A	mmonia	and Nitrites.	Nitrogen.	Contam- ination. (Estimated)	Chlorine.	Tempor- ary.	Perman- ent.	Total.	REMARKS.
	1.500	2.09	3.320	32880	8.5	• • •	•••		Clear
	.004	3.30	3.303	32710	15.8			• • •	Clear
	.500	4.21	4.920	48880	27.1	• • •			Clear
	.004	6.49	6.493	64610	13.7	• • •	• • •	• • •	Clear
	.008	3.85	3.857	38250	7.0				Clear
	1.150	1.54	2.486	24540	5.3				Clear
	3.300	14.30	17.016	169840	18.5				Clear
	.750	10.45	11.066	110340	19.1				Clear
	1.200	3.30	4.288	42560	11.3				Clear
	.017	.22	.234	2020	25.1				Clear
	.005	4.40	4.404	43720	11.3				Clear
	.250	4.40	4.606	45740	7.9				Clear
	.004	6.05	6.053	1	9.9		•••		Clear
	.003	2.75	2.752	1	5.1				Bright, with some
	.050		6.091	60050	18.5				Turbid
	.005	2.86	2.864	28320	9.4				Clear
	.004	1.98	1.983	1					Clear, with small
	2.000	6.60			1				clear
	.040	10.78					• • • •	• • •	Clear
	.004	2.97	2.973	4	(	•••	•••	• • •	Clear
1	.022	5.61	5.628	55960	10.5	•••		•••	Slightly turbid
	.035	2.20	2.229	21970	31.0	• • •	* * *	• • •	Clear
	2.500	5.83	7.889	78570	18.2	•••	* * *	• • •	Clear
	028	1.98	(		12.5	•••	• • •	• • •	Turbid, contains many
	.009		1	71250	22.6	• • •	• • •	• • •	partieles Clear, contains many
	.065			1		• • •	***	• • •	little particles Clear
	.003	1				• • •		•••	Clear
ħ.	.002		1		7.8	• • •	•••	• • •	Clear
V.	.006		-			• • •	•••	• • •	Clear
1	.230	1	4			• • •	• • • •	• • •	Slightly turbid
ŀ	.006		1			***	* * *	•••	Clear
	.005					•••	• • •	•••	Clear, many suspended
	000	3 30	0 004	02120	0 2	•••	• • •	•••	particles
	.008	3.30	3.306	32740	12.5				Clear, with many sus- pended particles
	.005	1	4.514		1				Clear
	.410			1					Clear
1									
	1.000	7.92	8.743	87110	29.5		* * *		Clear
	.008	7.15			35.0				Clear
	125	2.97	3.073	30410	8.1				Clear
1	.008	1	2.646	26140	5.4				Clear
	1.650	1		1					Clear
	.240	1		121560					Clear
	.005			1	1				Clear
	.004			1					Clear
	.005	1		1	5.0				Clear
	.400		6.050	1	1				Clear
	1.020	1		120270				* • •	Clear
	.530	1	1	191030	44.4			• • •	Turbid
1									
-									

Date of Receipt of	DESCRIPTION.	Temp.	Total solid	Organic	Organic
Sample.	DISCHII HON.	C	Impurity.	Carbon.	Nitrogen,
					-
1878.	WELL WATERS—(continued).				
May 7th			259.0		
0 0	8 Court, Dudley Street		153.0		
II II	7 and 8, Phillips Street (Diarrhaa)		116.0		rather
ıı Stl			158.6		very large
11 11	36 and 37, Ledsam Street		161.4		11
TI II	156 and 157, Ledsam Street		55.0	• • •	very large
11 11	14 Court, Darwin St. (Scarlet Fever)		126.0	• • •	11
11 11	15 Court, New Bartholomew Street		101.0	• • •	
13th	16 Court, New Bartholomew Street	• • •	147·0 141·0	* * *	* *
1	, , , , , , , , , , , , , , , , , , , ,		139.4	• • •	• • •
" 14tl	70—71, Bridge Street West (Diarrhæa) 5 Court, Little Ann Street	• • •	184.0	• • •	• • •
11 11	2—10, Little Ann Street	•••	108.0		
11 11	Back 43, Horse Fair		155.0		very large
11 11	6 and 7, Cross Street		186.0		very large
11 17tl:			109.0		
п	377 and 378, Pershore Road		87.4		
11 11	6 Court, Inge Street		290.0		
11 11	12 Court, Inge Street		125.0	}	very large
11 11	1 and 2 Courts, Pigott Street'		207.0		
11 11	58—62, Smallbrook Street		209.0	+	
n=22nd	33—35, Gough Road		119.0	• • •	very large
11 11	40 Court, Sherlock Street	• • •	114.4		• • •
11 11	11 Court, Kent Street, and 30 Court, Gooch Street		182.0		
11 11	C Clared Tlaned Clared		144.0	• • •	very large large
11 11	8 Court, Hill Street (Scarlet Fever)		181.0	• • •	
n 25th		1	143.0		very large
11 11	64 and 65, Bath Row		71.0		11
11 11	66 and 67, Bath Row		65.4		11
11 11	467 and 468, Park Road (Whooping)		128.0	/	P1
11 11	89 and 90, Talbot Street (Diarrhoa)	· · · · · · · · · · · · · · · · · · ·	108.0		moderate
11 11	3 Court, Pershore Street		59.0		11
11 11	15 Court, Navigation Street	• • •	186.0		very large
11 29th	87, Coventry Road (Typhoid)	• • •	95.0		11
11 11	82 and 83, Friston Street 2 Court, Baker Street		112.0	• • • •	11
11 11	10 and 20 Harlow Pond		$\begin{array}{c c} 170.0 \\ 35.0 \end{array}$		• • •
11 11	180 Harley Dead	• • •	67.0	• • •	• • •
11 11	4 Court, Holloway Head		126.0	• • •	very large large
June 6th	104, Warwick Street, and 19 Court.			• • •	mige
	Alcester Street (Typhoid)		197.0		
11 11	47 and 48, Princess Road		72.0		
11 11	7, Varna Road		135.0		very large
11 11	247—250, Bradford Street		157.0	1	11
11 11	Paget's Buildings, Baker St. (Diphtheria)		146.6		n
741	12—15, Dawson Street (Typhoid)		154.0	• • •	
7th	43 and 44, Thorp Street		161.0		large
11 11	3 and 4, Edgbaston Street 9 Court, Charles Henry Street		148.0	• • •	•••
11 11	93 Smallbrook Street		201.0		1
	33, Shanbrook Street		103.0	•••	large

		Nitrogen as	Total	Previous Sewage			Hardness.		
A	mmonia	Nitrates and Nitrites.	Nitrogen.	or Animal Contain- ination. (Estimated)	Chlorine.	Tempor-	Perman- ent.	Total.	REMARKS.
-									
ı	100	0.25	0.006	0,6610	11.0				CI)
ı	-420 $-425$	9.35	9.696 $5.410$	$96640 \\ 53880$	44·2 30·1	• • •	• • •	• • •	Clear
ı	014	$\frac{5.06}{3.52}$	3.531	34990	12.7		• • •	• • •	Clear Clear
ı	.006	$\frac{3.32}{2.42}$	2.425	23930	10.7	***	• • •	• • •	Clear, with many suspended particles
ı	.007	8.14	8.146	81140	$22 \cdot 3$	• • •	• • •	•••	pended particles Clear
ı	012	1.65	1.660	16280	6:5			• • •	Clear
ı	.009	3.30	3.307	32750	8.7				Clear
ı	.030	1:32	1.567	15350	5.9				Clear
ı	.035	4.62	4.910	48780	20.0				Clear
	125	4.62	4.623	45910	15.0				Clear
ı	1.800	4.84	6.322	62900	11.8				Clear
	.045	2.20	2.237	22050	21.8				Clear
	.020	1.54			10.5				Clear
	.008	6.60			17.6				Turbid
	.003	5.50	1		37.0				Clear
	.050	1	3.781	37490	10.3			• • •	Turbid
ı	.450				4.2				Clear
ı	1.600		1		33.7				
ı	.011	7.70			18.0				Clear
ı	.004	7.81		1		• • •			Clear
ı	1.100								Clear
ı	.012		ł	1					Clear
1	1.500	3.30	4.530	44980	14.5	•••	• • • •		Clear
ı	.010	F.00	5.000	E0200	000				C)
1	.010	1				•••	•••	•••	Clear
	013	1	1	$\begin{bmatrix} 54730 \\ 61390 \end{bmatrix}$		• • •	•••	• • •	Clear
	.005	_		1			• • •	• • •	Clear
	.005					•••	1	•••	Clear
	.003	7	1			• • • •	•••		Clear Clear
ı	.006		•			•••	•••		Clear
	011	1						1	Clear
	.004				1				Clear
	.005			· ·		•••		•••	Clear
	.008					***	***		Numerous suspended particles
	.003					• • •			particles Clear
	3.000								Clear
	.017	1	1	1					Clear
	.010	1	1				1		Clear
	.00-			1	1				Clear
							The second second		
	.017		5 4.964	49320	23.6				Clear
	.400	1							Turbid
1	.010						1		Clear
1	.015		1	1					Clear
	.010								Clear
	.030								Clear
	.005		1						Clear
	•420		1						Clear
	.600						V		Clear
	.00	9   4.29	9   4.297	7 42650	13.3		· · · ·	•••	Clear
							1	1	

Recei	e of ipt of iple.	DESCRIPTION.	Temp. C.	Total solid Impurity.	Organic Carbon.	Organic Nitrogen.
18	78.	WELL WATERS—(continued).				
June		13-17, Angelina Street		99.6		very large
11	11	1 Court, Ryland Street		218.0		11
11	13th	13 Court. Inkerman Street		175.0		11
1	10011	108 and 109, Inkerman Street		116.0		
11		9, Argyle Street		70.0		
11 -	11			124.0		
11	11	1, 115,10		466.0		
11	11	155, Argyle Street	• • •	56.0	• • •	very large
11	7.4.3	164, Argyle Street	• • •	229.0	• • •	
H	14th	6, Adelaide Street	• • •		• • •	11
Н	11	8 Court, Lombard Street	• • •	180.0	• • •	11
11	11	149, Vanghton Street	• • •	105.0	• • •	moderate
11	11	221, Alcester Street		265.0	• • •	large
11	H	5 and 6, Edghaston Street	• • •	108.6		• • •
11	11	37—39½, Upper Dean Street, and 77,				
				92.0		
11	19th	40—49, Aston Road (Measles)		276.0		
11	11	73 and 74, Caroline Street		104.0		large
11	- 11	5, Alcester Street		329.0		
11	11	16 and 17 Courts, Alcester St. (Searlet)		206.0		very large
11	11	Back 71 and 72, South Road (Typhoid)		123.6		11
11	11	83—87, Emily Street		96.0		11
11	21st	26 Court, Tower Street		145.0		
	2150	10 and 11 Courts, Lower Hospital St.		90.0		
11		10 1 11 (! ! D 1		108.0	• • •	very large
- 11	11	19 and 19 Chalma Day 1 (Scarlet)		78.0	• • •	11
11	11				1	t'
11	11	285 and 286, Heath Street		148.6	• • •	• • •
11	0541	294, Heath Street	• • •	92.0		• • •
11	25th			113.0	• • •	• • •
11	11	6 Court, Clarke Street		94.0		
- 11	H	Cambridge Place, Freeth Street		117.0	• • •	very large
- 11	11	454 and 455, Park Road (Scallet)		141.0		11
- 11	11	2 Court, and No. 11, Sherlock Street		166.6		
- 11	- 11	91, Varna Road		146.0	• • • •	
11	27th	$64\frac{1}{2}$ and $65$ , Well Street		113.0		
11	11	3, Princess Road		179.0		
11	11	4 and 5, Princess Road		183.0		
11	11	2 and 3 Courts, Blucher Street		188 0		
11	11	8 Court, Brilge Street West		59.6		very large
-11	11	The Birchlands, Westfield Road		70.0		large
July	1st	80 and 81, Summer Road	1	171.0		
tt.	T	4 Court, Miles Street (top pump)		112.0	,	
11	11	4 Court, Miles Street (bottom pump)		135.0		
11	11	134 and 135, Aberdeen Street (Scarlet)		131.0		
11	17	134 and 135, Aberdeen Street (Scarlet) 203 and 204. lcknield Port Rd. (Scarlet) Pever)		122.0	•••	• • •
11	11	82 and 84, Gough Road	•••	100.0	•••	very large
11	5th	91 and 92, Pershore Street, and 33 and	• • •	1000	•••	11
		34. Bromsgrove Street		005.0		
11	н	11 Court Bromegrave Street	• • •	205.0	• • •	• • •
		11 Court. Bromsgrove Street, and 54, Essex Street		1000		
11	11			196.0		•••
11	11	39 Court, Cheapside (Whooping Cough)		183.0		]
	- 11	15 Court, Alcester Street (Scarlet Fever)		147.0		large

		Nitrogen as	Total	Previous Sewage			Hardness.		
	Ammonia	Nitrates and Nitrites.	Nitrogen.	or Animal Contam- ination. (Estimated)	Chlorine.	Temporary.	Perman- ent.	Total.	REMARKS.
ı									
I	000	1 9.5	1 905	12050	0.0				
I	.008	1.32		$12950 \\ 28350$	$\frac{6.8}{18.3}$	• • •	•••	• • •	61.
ı	.009	$\frac{2.86}{9.02}$	2.867 $9.024$	89920	16.3	• • •			Clear
H	.005		7.212	71800	11.3	• • •	• • •		Turbid
ı	.610	6.71	1.284	12520	4.5	•••	• • •	•••	Clear
n	·090	$\frac{1.21}{2.31}$	$\frac{1.264}{2.433}$	$\frac{12020}{24010}$	10.2	• • •	• • •	• • •	Clear
I	.003	.66	.662	6300	2.0	• • •	•••	• • •	Clear, yellowish
N	.003	1.10		10740	$\frac{2\cdot 3}{2\cdot 3}$	* * *	• • •		Clear Many suspended
-	007	6.05		60210	32.5	•••	•••	• • •	particles
N	.003	7.15	1	71200	14.0		• • •	• • •	Clear   Clear
Ŷ	.003	$\frac{7.13}{2.31}$			11.5	• • •	•••		Clear
ľ	.003				)	•••	•••	• • •	Clear
	150		$\frac{9.132}{4.303}$	$\frac{31000}{42710}$	18.0		•••	***	Clear
	1:00	4.18	4.000	#211U	100	• • •	• • •	• • •	Clear
	.250	.66	.806	7740	12.3				Clear
			1.070	10380			• • •	• • •	
	1:300	trace		65790		• • • •	• • •	• • •	Slightly turbid     Clear
		6.60				•••	• • •	• • •	
	·300 ·003	13.20		60200		• • •	• • •	* * *	Slightly turbid   Clear
	.003	6.05		17310	23.6	• • •	• • •		Clear
	015	1.76		19600	6.9	• • •	•••	•••	Clear
	.070	$\frac{1.98}{9.02}$	9.078		26.0	• • •	• • •	• • •	Clear
	.006	$\frac{3.02}{2.75}$		27230		• • •	• • •	• • •	Clear
	.004		2.755 883	8510	7.0	• • •		• • •	Clear
-		$\frac{.88}{3.52}$		34900	3.8	• • •	• • •	• • •	Clear
	.003	8.03	8.153	81210	19.0	• • •	• • •	,	Clear
	·150 ·200	3.30		34330	6.2	• • •	• • •	• • •	Clear
		6.82		73190	13.9		• • •	•••	Clear
ı	.650	0.52		23850	5.2	• • • •	•••	•••	
Ą	2.000	4:95				• • •	•••	• • •	Clear, residue brown
ı	.008	7.37	1 /				••• ]	• • •	Clear
	.007	4.95		1		•••	,		Clear Clear
1	3.200						• • •	* * *	
1	.019	2.09		20740 $47100$	10·5 7·5	• • •	• • •	• • •	Clear, yellow
	013	4.73		53440	9.9	1		• • •	Clear
	250	5.17	5.376			• • •	• • •	* * *	Clear Clear
-	260	5.06	1			• • •	• • •	• • •	Clear Clear
-	·020	8:58	1	16220	9.1		• • •	• • •	Clear
	.005	1.65				• • •	• • •	• • •	Clear Clear
	.003	1.76		17300			• • •	• • •	Clear Clear
	350	8.47	1	87260		• • •		• • •	Clear Clear
	1.000	2.53				• • •	.,.		Clear Clear
	•700					• • •		• • •	
	2.500		1			• • •	• • •	* * *	Clear
	.009					• • •		• • •	Clear
-	.010	1.76	1.768	17360	8.0	• • •			Clear, greenish
	.500	8.25	8.660	86280	25.0				
	1.200	6.27	7.258						
	.800								
	.003	2.31	2.312	22800	9.5				
-								18	

1878			Temp. C.	solid Impurity.	Organic Carbon.	Organie Nitrogen.
1272		WELL WATERS—(continued).				
				172.6		
July	8th	29 Court, Summer Lane (Scarlet Fever)		$\begin{vmatrix} 1 & 2 & 0 \\ 224 & 0 \end{vmatrix}$	• • •	very large
11	11	15 Court, New John St. West (Fever)	• • •		• • •	• • •
11	9th	140 and 141, Varna Road		194.0	• • •	very large
H	-11	142, Varna Road		198.0		11
11	-11	120 & 121, Greenway Street (Typhoid)		124.0		11
11	11	122—124, Greenway Street (Typhoid)		133.0		11
Ti .	11	13-15, Braithwaite Rd. (Scarlet Fever)		80.6		11
H	11	50 and 51 Priestley Road		63.0		rather large.
11 1	l 1th	32 and 40, Summer Road (Whooping)		82.0		very large
11	- 11	1 Court, Sun Street		198.0		large
" 1	l 2th	45—48, Bloomsbury Place		183.0		
11	11	Prospect Place, Holborn Hill (Diarrhea)		151.0		very large
11	11 1	57 and 58, Varna Road		101.6	•••	
11	11	6 and 7, Spring Vale (Diarrhæa)	• • •	170.0		very large
	17th	440 and 441, Coventry Road	•••	85.0		1
	18th	Sent by Mr. Councillor Tait from	• •		• • •	11
" *		Children's Hospital		72.0		
H	11	46 and 47, Priestley Road		57.0	• • •	11
11	11	40 and 41, Friston street (Diarrhea)		58.0	• • •	H
	"	44 Court, Bell Barn Road, and Oxford	• • •		• • •	moderate
11	''	Place, Bell Barn Road (Typhoid)		149.0		
		10 Court, Darwin Street (Typhoid)	• • •	129.0		11
- 11	11	110 Dialosh /Temberil	• • •		• • •	large
!!	11	2 Court Donoing Street		289.0		11
l .	$19  ext{th}$	2 Court, Benacre Street	• • •	158.0		• • •
11	11	14 and 15, Balsall Heath Road		88.0		
11	11	18 and 19, Balsall Heath Road		80.0		very large
11	11	142, Bromsgrove St. (Whooping Cough)		158.0		moderate
- 11	H	4 and 5, Johnstone Street		61.0		
- 11	11	56 and 57, Johnstone Street		77.0		rather large,
11 2	$23\mathrm{rd}$	$15\frac{1}{2}$ , Caroline Street		176.0		very large
H	- 11	75, Brearley Street West (Scarlet Fever)		177.0		
11	11	19 Court, Bradford Street		164.0		large
- 11	11	4 and 5, Leopold Street		115.0		11
11	11	56, Newtown Row		209.0		very large
11	11	"The Cottage," Richmond Hill Road		45.0		tt tt
It 2	$26  ext{th}$	1 Court, Inkerman Street		170.0		H
H	13	2 Court, Inkerman Street		166.0		11
11	-11	3 Court, Inkerman Street		162.0	• • •	11
11	- 11	6 and 7, New Vauxhall Terrace.				
		Duddeston Mill Road		75.0		large
ft 2	27th	52 and 53, Stratford Road		76.0	1	
11	11	165—169, Moseley Street		235.0	• • •	very large
11	11	17—24, New Church Street (Scarlet)		192.0	• • •	largo
ır 3	30th	32 & 33, Bell Barn Road (Scarlet)		132.0	• • •	large
11	31	3 and 4, Hooper Street, and 12 and 13.	• • •	104(	***	• • •
		Dudley Road		130.0		
11	11	114, Hope Street, and 25 Court, Hope		1000		• • •
		Street (Seeplet Foren)		199.0		
ft.	11	Back 198 Suring Hill	• • •		• • •	* * *
11	-11	1 Court, Brearley Street, and 40 Court,	• • •	273.0	• • •	* * *
		Newtown Row		171.0		1
			• • •	171.0		large

-		Nitrogen	Total	Previous Sewage			Hardness.		
	Ammonia	as Nitrates. and Nitrites	Combined Nitrogen.	or Animal Contain- ination (Estimated)	Chlorine.	Tempor.	Perman-	Total.	, REMARKS.
1									
ı	000	4 20	4 000	4222					
l	.003		4.292	42600	29.5	•••	• • •	• • •	C11
	$\frac{1.200}{.008}$	$\begin{array}{c c} 7.70 \\ 4.40 \end{array}$	8.688 4.406	86560	21.3	•••	• • •	• • •	Clear
ı	.008	5.06	5.066	$43740 \\ 50340$	$\frac{10.0}{10.5}$	• • •	***	• • •	Clear Clear
	.004	5.50	5.503	54710	15.0	• • •	• • •	• • •	Clear
l	.004	6.49	6.493	64610	13.8			• • •	Clear
-	.003	1.21	1.212	11800	5.2				Clear
ı	.005	1.43	1.434	14020	4.5			• • •	Clear
-	.005	3.85	3.854	38220	$6 \cdot 2$			• • •	Clear
i	.001	7.70	7.701	76690	20.0				Clear
١	.003	1	5.202	54700	17.8	• • •			Clear
ı	1.500	3.56	4.860	48280	29.6				Clear
	.006	1.87	1.875	18430	25.0	•••		• • •	Clear
-	.005	1.54	1.544	15120	25.0		• • •		Clear
1	.007	1.98	1.985	19530	5.8		• • • •	•••	Clear
1	004	1.05	1.070	10410	یو بی				Tr1-1-1
l	.004	1	1.873			•••	• • •	• • •	Turbid
	·006					• • •	• • •	• • •	Clear Clear
	1004	2.19	2733	27210	7.8		•••	• • •	Clear
1	.005	8.80	8.804	87720	15.9				Clear
	.004			1		•••	•••	• • •	Clear
ı	.003	1				•••	•••	• • •	Clear
1	.500			29080					Clear
	.035			27470					Clear
	.006	1	1.435	14030	4.8				Clear
	.018	6.05	6.065	60330	19.5			**;	Clear
١	.050				4.0				Clear
	.003		2		1				Clear
k	.005		1.0.344					• • • •	Turbid
ı	.060								Clear
ı	.005				1				Clear
	.007	1						• • • •	Clear
	.006		1	1	V			• • •	Clear
	.007		1					•••	Clear
	·004 ·004			1	4				Clear Clear
	.004	1	2		1				Clear
	004	1 92	. 323	10010	100			•••	Olcai
	.005	3.52	3.524	34920	9.4				Clear
	.005		1						Clear
	.006		1	4	1				Clear
	.004			1					Clear
	.050								Clear
	.200	6.60	6.765	67330	19.9				Clear
	1			1.500		***	•••		0.000
	.045				28.8				Turbid
	3.000	15.40	17.869	178370	32.7				Clear
	.012	8.25	8.260	82280	28.8				Clear
	3.000	15.40	17.869	178370	32.7			• • •	Clear

1878.   Well Waters - (continued).	Date of Receipt of Sample.	DESCRIPTION.	Temp.	Total solid Impurity.	Organic Carbon.	Organic Nitrogen.
July 31st						
Aug. 1st						
Aug. 1st   Back 11, Parliament St. (Searlet Fever)   99·0     100·0   100·0     100·0   100·	1 "				• • •	
Back 12, Parliament St. (Searlet Fever)   99-0   10   10   10   10   10   10   10					• • •	large
Brookfield Place, New Spring Street						
141—144, New Spring Street						
1						
1	11 6th		1	1		
1	11 11	32 Court, Irving Street (Diarrhæa)				
1	11 11		• • •			• • •
14, Oxford Street			• • •			very large
9th   94 & 95, Hingeston St. (Scarlet Fever)   73 - 76, Main Street (Diarrhea)   132 6						• • •
132-6   very large   22 and 23, Erasmus Road, and 51— 54, Auckland Road   78-0   89-0   very large   54, Auckland Road   89-0   19-1						
1						
1	11 11			1020	•••	very large
1				78.0		
1	11 15			89.0		very large
14th	<b>1</b>		• • •			
				t .		11
Alma Place, Turner St. (Scarlet Fever)   98.0   very large   52 and 53, Larches St. (Scarlet Fever)   179.0					• • •	• • •
179.0						
1						
1	11 11					
(1st Pump)	1	29—31, Braithwaite Road		1		
	11 21st	21—23, Bordesley Park Rd. (Typhoid)		ĵ		
Cand Pump    Can		(1st Pump)		131.0		11
Lady bird Terrace, Greenway St.   (Typhoid)   66 and 67, White Road   31.0   31.0   155.0	11 11	21—23, Bordesley Park Rd. (Typhoid)		7 7 0 0		
1		Ladybird Terrace Greenway Still	• • •		• • •	
1	1	66 and 67. White Road				
Brompton Place, Larches St. (Typhoid)		26-24, Darwin Street (Scarlet Fever)	• • •			
Alma Place, Turner Street (Soft Water)   5.0   80.0   116.0   80.0   116.0   80.0   116.0	11 11	Brompton Place, Larches St. (Typhoid)				
Salford Place, Turner Street	" 26th	Alma Place, Turnen Street (Soft Water)		1		
		Salford Place, Turner Street		80.0		
167—172, Alcester Street   181.0   64.0     181.0   64.0     181.0   64.0     181.0   64.0     181.0   64.0     181.0   64.0     181.0   64.0     181.0   64.0     181.0   64.0     181.0     181.0   64.0     181.0   64.0     181.0     181.0   64.0     181		Astwood Place, Turner Street				
1		167-17? Algeston Street (Diarrhea)				
14 and 15, Dymoke Street (Typhoid)   252.0   110.0	- "	5 Court, Bordesley Park Road				very large
1		14 and 15, Dymoke Street (Typhoid)				
15 Court, Great Barr St. (Scarlet Fever)   284.0   9—11, Coventry Street   329.0   100.0   16 Court, Allison Street   50.0   100.0		21 and 22, Dymoke St. (Searlet Fever)			1	
Gladstone Terrace, South Road Gladst	11 31st	15 Court, Great Barr St. (Scarlet Fever)				
Gladstone Terrace, South Road 16 Court, Allison Street Thomason's Buildings. and No. 49. Heath Street (Typhoid) Rotton Park Terrace, and Helena Terrace, Osler Street 97 and 98, Irving Street (Diarrhea) 1 Court, Manchester St. (Scarlet Fever)  1 Tool 0 50.0  100.0 54.0  106.0 106.0		9—11, Coventry Street				
Sept. 4th  Thomason's Buildings. and No. 49.  Heath Street (Typhoid)  Rotton Park Terrace, and Helena Terrace, Osler Street  97 and 98, Irving Street (Diarrhæa)  1 Court, Manchester St. (Scarlet Fever)		Gladstone Terrace, South Road				
Heath Street (Typhoid) 54.0  Rotton Park Terrace, and Helena Terrace, Osler Street 58.0  97 and 98, Irving Street (Diarrhœa) 106.0 1 Court, Manchester St. (Scarlet Fever)		Thomason's Publication		50.0	1	
Rotton Park Terrace, and Helena Terrace, Osler Street 97 and 98, Irving Street (Diarrhea) 106.0 1 Court, Manchester St. (Scarlet Fever)	7011	Heath Street (Typhoid)				
1 Court, Manchester St. (Scarlet Fever)  1 Court, Manchester St. (Scarlet Fever)  1 Court, Manchester St. (Scarlet Fever)	11 11	Rotton Park Terrace and Holono	• • • • • •	94.0		
1 Court, Manchester St. (Scarlet Fever) 106.0 106.0		1 terraee, Osler Street		58.0		
1 Court, Manchester St. (Scarlet Fever) 247:0	£	and 98, Irving Street (Diarrhoea)				
	11 11	1 Court, Manchester St. (Scarlet Fever)				- 1
	1					

-		Nitrogen as	Total	Previous Sewage			Hardness.		
	Ammonia	Nitrates and Nitrites.	combined Nitrogen.	or Animal Contam- ination (Estimated)	Chlorine.	Temporary.	Perman- ent.	Total.	REMARKS.
ı									
	.012	1.87	1.884	18520	7.5				Slightly turbid
-	.005	1.43		14020	$2 \cdot 2$			• • •	Clear
	.006	5.06	5.065	50330	8.5				Clear
	.005	2.53	2.534	25020	6.8				
	.011	8.25	8.259	82270	11.7				
	.013	6.71	6.720	66880		• • •			
1	.002	6.05	6.056			• • •			Clear
	.004	6.80						• • •	Clear
	.026	8.80	8.281	87890		• • •		• • •	Clear
	.007	1.76	1.766	16340		• • •			Clear
i	•210	2.86	3.033	30310	25.9	• • •			Clear
	.006	2.86	2.865	28330		• • •	• • •	• • •	Clear
1	$007 \\ 012$	$1.43 \\ 6.05$	1.436 $6.460$	$ \begin{array}{c c} 14040 \\ 60280 \end{array} $	3.7 $11.7$	• • •	* * *	• • •	Clear Clear
	012	0.03	0 400	00280	11 /	• • •	•••	•••	Clear
-	.035	2.57	2.779	27470	7.4				Clear
	.005	2.97	2.977	29459	9.9	•••	• • •	•••	Clear
	.009	2.97	2.977	29450	8.4			• • •	Clear
i	.050	1.76	1.801	17690	5.8				Clear
	.050	4.40	4.441	44090				• • •	Clear
Ì	.035	2.20	2.229	21970					Clear
	.006	3.45	3.855	38230	11.2				Clear
ļ	.005	7.04	7.044	70120	16.3				Clear
	.002	6.05	6.052	60210	18.3				Clear
	.003	·88	.882	8500	4.6		• • •	* * *	Clear
	.004	1.54	1.543	15110	10.0	• • •			Clear, yellowish
	.100	2.20	2.282	22500	18.5				Clear
ļ	.009	5.83	1						Clear
	.004	.55						• • •	Clear
	.003	1.65	1.652						Clear
	.003	2.75	2.752	27210	8.4				Clear
	•250	trace	.206		!				Clear
	.006	1.76						• • •	Clear
	.030	5.28		1		•••			Clear
	2.200					• • • •		•••	Clear
	.008					***	• • •		Clear
	.005	<b>\$</b>				•••	• • •	•••	Clear
	.010					•••	•••	•••	Turbid Clear
	·009	}				•••	• • •	* * *	Clear Clear
	1.200			1		• • •	•••	•••	Clear
	.016			1		•••	•••	• • •	Olour
	010			1					
	010	1 02	1 020	12000					
	.190	1.32	1.476	14440	9.9				
	.009	1.87	1.877	18450	8.1			•••	
	.008			1				•••	
	.500	7.15		1			•••		
					l				

		1			ŀ	
				,		
	ate of eipt of			Total		0
	imple.	DESCRIPTION.	Temp. C.	solid Impurity.	Organic Carbon.	Organic Nitrogen.
			C.	impurity.	Otti DOII.	Tribiogen.
18	878.	WELL WATERS—(continued).				
Sep.	. 9th	5 Court, New John Street West (Searlet)		134.0		very large
11	11	5 Court, Vere Street (Typhoid)		185.0		II
11	10th	2 Court, Mount St., Deritend (Typhoid)		114.0		
		3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		142.0	• • •	moderate
- 11	11		• • •		• • •	very large
11	ч	4 Court, Warwick Street (Typhoid)	• • •	188.0	• • •	11
11	П	10 and 11, Little King Street, and 32				
		Court, New John St. West (Searlet)		115.0		11
11	11	11 Court, and 18, Well St. (Scarlet Fever)		103.0		
п	U	46 Court, Bell Barn Road		159.0		
11	13th	41 Court, Newtown Row (Diarrhea)		229.0		
11	11001	438 & 439, New John St. West (Scarlet)		124.0	• • •	• • •
			***		• • •	very large
11	11	8—12, Whitmore Street (Diphtheria)	• • •	108.0	• • •	11
- 11	11	Tichborne Place, and Castro Place,				
		Ford Street (Scarlet Fever)		104.0		
11	11	3 Court, Farm Street (Scarlet Fever)		91.0		large
н	11	11 Court, Farm Street (Scarlet Fever)		101.0		
i n	$17 \mathrm{th}$	55 and 56, Chattaway Street		125.0		very large
11	11	205 and 206, Watery Lane (Scarlet Pover)		125.0		very large
11	tt.	100 184 117 11 01	• • •		•••	• • •
			• • •	148.6	• • • •	very large
11	11	7 and 8, Great Barr Street	• • •	288.0	• • • •	11
11	11	26 Court, Gt. Russell St. (Diarrhœa)		85.0	• • •	
11	11	3 Court, Oliver Street (Diarrhæa)		150.0		very large
- 11	20th	42 and 43, Bristol Road		102.0		large
13	11	18 and 19, Kent Street (Typhoid)		120.0		
11	11	40 and 41 Courts, Spring Street		106.6		
11	21st	2 Court Vaughton Street		141.0	• • •	moderate
- 11	It	6 Court Highanto Street			• • •	1
11	11	7 Court Highwate Street		169.0	• • •	large
	24th		•••	209.0	• • • •	very large
11		24—29, Anderton Road (Small Pox)	• • •	154.0		
11	11	46 and 47, Price Street (Scarlet Fever)		192.0		very large
11	11	25 Court, Hatchett Street (Diarrhæa)		164.6		large
- 11	11	33—36, Lawden Road (Diarrhæa)		162.0		
- 11	tr [	26 & 27, Sampson Rd. North (Diarrhea)		61.0		
er	11	130—132, Bordesley Park Road		72.0	• • •	very large
11	26th	46 and 47, Ryland Street (Diarrhea)			***	11
11	11	16 Count Thom Street (Diame)	• • •	122.0	• • •	11
		41-45 Johnson Street (Diarricea)	• • •	162.0	• • • •	11
11	11	41—45, Johnson Street	• • •	136.6		• • •
11	''	46—49, Johnson Street		120.0		very large
11	11	Magenta Place, Winson Green Road				
1		(Scarlet Fever)		88.0		
11	11	6 & 7 Courts, Vaughton St. (Diarrhora)		137.0		* * *
Oct.	1st	10 Court, Adelaide Street (Diarrhea)		223.0	• • •	very large
11	11	54, Lancaster Street			•••	very large
11	11	63-67, Great Barr Street (Scarlet Pever		270.0	• • •	II.
11	11	34 Court, Cheapside (Scarlet Fever)		334.0	• • •	• • •
11	11	254—258 Park Road (Divided		206.0	* * *	very large
11	į.	254—258, Park Road (Diphtheria)		146.0		• • •
	327	36-43, Lower Dartmouth St. (Searlet)		162.0		
11	3rd	32 Court, Irving Street		132.0		
11	- 11	Trouses occupied by Shaw and Pardoe				very large
		Dudley Road		80.0		
11	11	frouses occupied by Goodacre and	• • •	000	• • • •	
		Dringley Dudley Road		20.0		,
		many, iradicy noad	• • •	80.6		large

1		Nitrogen as	Total	Previous Sewage			Hardness.		
Λ	nimonia	Nitrates and Nitrites.	Combined Nitrogen.	or Animal Contam- ination. (Estimated)	Chlorine.	Tempor- ary.	Perman- ent.	Total.	REMARKS.
-									
	.005	6.60	6.604	65720	21.1				
	.007	3.08		$\frac{30720}{30520}$		•••	• • •	• • •	Clear
	.002	2.64	2.641	26190				• • •	Clear
	.004	2.75	1					• • •	Clear
	.005	3.19						• • •	Clear
									010.00
	.004	6.27	6.273	62410	14.0				Turbid
	.020	4.40	4.416	43840	16.9				Clear
	•410	i	1		{				Clear
	.800			116380					Clear
	.005		1		1				Clear
	.008	6.60	6.606	65740	10.7			• • •	Slightly turbid
			F 100	<b>7</b> 7010	7.0				
	•250	1	t .	1	4			• • •	Clear
	.004	4.29			1		• • •		Clear
1	.009	1				•••		• • •	Clear
	.003			1		• • • •	* * *	• • •	Clear
	.060	l .		1		•••	•••	• • •	Clear
	·005		1			***	***	• • •	Clear Clear
	003		1			• • • •	* • •	• • •	Clear
	.005					***	•••	• • •	Clear
	.002		1	16190	1		• • •	• • •	Clear
	2.000	1			1		• • •		Clear
	.004	1	1	4	1				Clear
	.300		l .	1	1				Clear
	.003		1	1					Clear
	.004	1	1						Clear
	1.650	7.70			12.6				Clear
	.015	3.20	3.212	31800	29.2				Clear
	.007	9.46	9.466	94340	22.7				Clear
	.520	3.96		1					Clear
	.005	1			1				Clear
	.015			1	1			• • •	Clear
	.005				1		• • • •		Clear
	.008	1		1				• • •	Clear
	•450			1	-	•••	•••	• • •	Clear
-	.006	3.08	3.085	30520	10.6	• • •	• • •	• • •	Clear
i	1.000	2.05	1,000	19000	14.2				Clear
	1.200	1	1			•••	•••	• • •	Clear Clear
	·007	\$			ł.		• • •	• • •	Clear
	.008		1	1		***	• • •	• • •	Clear
-	1.030		1	101660		•••	• • • •	•••	Clear
	.008	1		1	25.0				Clear
	.735	-							Clear
	.018	1			4		-	• • •	Clear
	.008		1					***	Clear
-	3.400							• • •	Very turbid, yellow, ocour of sewage
	.008				10.0				Clear

Dati Recei Sam	pt of	DESCRIPTION.	Temp. C.	Total solid Impurity.	Organic Carbon.	Organic Nitrogen.
		(continued)				1
187		WELL WATERS—(continued). 6—8, Great Colmore Street		108.0		very large
Oct.	3rd	10 Court, Devon Street		67.0		rather large
11	4th	36 and 37, Devon Street		60.0		very large
11	Sth	121—125. Heneage St. (Scarlet Pever)		164.0	• • •	
	Ott	Bk. 56 & 57, Railway Terrace, Nechells		90.0	• • •	large
11	11	345—350. Nechells Park Road		69.6		11
11	11	54 and 55, Stratford Road (Typhoid)		106.0		very large
11	11	12 and 13. Adelaide Street, Vauxnan	• • •	103.0	• • •	11
11	11	65—72. Highgate Lane (Typhord)		102.0	• • •	11
11	14th	5 and 6. Wordsworth Road	• • •	136.0	• • •	very large
11	11	14 and 15, Winson Green Road	• • •	120.0		
11	11	12 and 13, Winson Green Road		106·6 80·0	• • •	very large
11	11	170, Green Lane	• •	274.0	• • •	lancro
11	15th	2 Court, Oughton Place (Scarlet Fever)	• • •	268.0		large
11	11	32 and 33, Ladypool Lane	• • •	76.0		rather
11	17th	Kelynge Terrace, Kelynge Street Hanley Terraces, Kelynge Street (Scarlet)		68.0		large large
11	Ħ	107 & 108, Ryland St. North (Diarrhoa)		140.6	,	
11	11	27, Navigation Street		294.0		very large
1 "	11	39—41, Parker Street, and back 24.				
11	" "	Bellis Street (Typhoid)		109.0		
1,,	11	Back 52, Garrison Lane (Searlet Fever)		191.0		exeessive
1 "	28th	108 & 109, New John St. West (Searlet)		132.0	1	
11	11	22, Court Well Street (Typhoid)		109.0		
11	11	311 and 312, Momment Road		87.6		
11	11	Noah's Buildings, Wheeley's Lane		164.0		
11	31st	303, Pershore Road		69.0	1	very large
11	11	390, Bristol Road		133.0		tt
Nov.	. 1st	36 Court, Newtown Row (Searlet)		140.0		large
11	11	103, Steelhouse Lane (Typhoid)		192.0		very large
- 11	11	93.—95, Floodgate Street		271.6		
11	11	1 Court, Meriden St., top pump (scarlet Fever) 3 Court, Meriden St. (Scarlet Fever)		90.0		very large
11	11	1 Court, Meriden Street, bottom (Scarlet Pever)		$\begin{vmatrix} 25.0 \\ 112.0 \end{vmatrix}$	/	• • •
11	6th	12 and 13, Rodway St. (Scarlet Fever)		68.0		
	11	16 Court. Smith Street (Scarlet Fever)	•••	232.0	• • •	very large
11	11	31-34. Ormand Street (Scarlet Fever)		208.6		vous lavore
11	11	21 and 22, Cathcart Street (Typhoid)		180.0		very large
11	11	23 and 24, Catheart St. (Scarlet Fever)	• • •	134.0		very larg
11	- 11	25 and 26. Catheart Street		124.0		very range
- 11	13th	90 and 92, St. Luke's Road		147.4		very large
11	11	12 Court, Bissell Street (Typhoid)		156.0		•••
- 11	11	85, Summer Lane (Diphtheria)		164.0		
"	11	47 and 48, Tilliugham St. (Typhoid)		112.4		
11	11	20, Highgate Lane 2 Court Sun Street (Typhoid)		135.4		very large
11	18th	2 Court, Sun Street (Typhoid) 8. Kent Street Worth (Small-pox)		195.0		• • •
11	10111	1 130 and 131 Cregoe Street	• • •	78.4		very large
11	11	16-21, Cregoe Street, and 7 Court,	• • •	134.0		ti ii
11	11	Latimer St. South (Scarlet Fever)		112.0		
11	11	2 Court, Burbary St. (Scarlet Fever)		113·0 261·4		11
		()	* * *	2014		
						1

Nitrites	r		Nitrogen as	Total	Previous Sewage			Hardness.		
0.05	lini	monia	and	Nitrogen.	Contam- ination.				Total.	REMARKS.
0.05		.006	6:60	6:605	65730	13.5				Clear
006	_			J						
O18	_			1						
006	_			(		2				
1006		.006								
1004		.006	2.75	2.755		1	• • •			Clear
1003		.003	3.30	3.302	32700	4.9			• • •	Clear
1006	ш	.004	5.39	5.393	53610	7.0				Clear
325		- 1	.99	.992	9600	7.5		• • •	• • •	Slightly turbid
O10	_			4.515	44830	14.5				
1007	_					1		• • •	• • •	
1004							•••	• • •		
150	_					1			• • •	
.004         2·75         2·753         2·7210         4·9	_					1 5	•••		• • •	
005	_						•••		• • •	
1003	_			1			•••	• • •	• • •	
16.72	_						• • •	•••	• • •	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	_		- 1	1			• • •	•••	•••	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ш	019	16.72	10.832	168000	40.8	• • •	• • •	• • •	Clear
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.	650	1.05	6.308	69760	19.5		i		Clean
1.150								1		
1·150							-	1		1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					J.					1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1		1			1			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						1				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		007			ľ					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		007	7.59			19.3				Clear
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	•	006		6.935	69020	23.8			• • •	Clear
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					51480	45.7				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			2.75	2.756	27240	5.8				Clear
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							1			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				1				• • •	• • •	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								• • •		
·005       4·62       4·624       45920       6·7        Clear         ·008       3·30       3·306       32740       11·2        Clear         1·450       4·62       5·814       57820       14·5        Clear         ·052       7·70       7·743       77110       25·3        Clear         ·058       3·52       3·568       35360       6·1        Clear         ·005       4·62       4·624       45920       8·2        Clear         ·019       4·29       4·306       42740       26·4        Clear         ·014       3·02       3·029       29970       8·0        Clear         ·005       8·25       8·254       8·254       8·2920       16·6					- 1		•••		• • •	Clear
·008       3·30       3·306       32740       11·2        Clear         1·450       4·62       5·814       57820       14·5        Clear         ·052       7·70       7·743       77110       25·3        Clear         ·058       3·52       3·568       35360       6·1        Clear         ·005       4·62       4·624       45920       8·2        Clear         ·019       4·29       4·306       42740       26·4        Clear         ·014       3·02       3·029       29970       8·0        Clear         ·005       8·25       8·25       8·25         Clear							•••		• • •	Cl
1.450       4.62       5.814       57820       14.5         Clear         .052       7.70       7.743       77110       25.3         Clear         .058       3.52       3.568       35360       6.1         Clear         .005       4.62       4.624       45920       8.2         Clear         .019       4.29       4.306       42740       26.4         Clear         .014       3.02       3.029       29970       8.0          Clear         .005       8.25       8.25       8.25       8.20		- 1					• • •	• • •	•••	
.052       7.70       7.743       77110       25.3         Clear         .058       3.52       3.568       35360       6.1         Clear         .005       4.62       4.624       45920       8.2         Clear         .019       4.29       4.306       42740       26.4         Clear         .014       3.02       3.029       29970       8.0         Clear         .005       8.25       8.25       8.25       8.25       8.25		1								
.058       3·52       3·568       35360       6·1         Clear         .005       4·62       4·624       45920       8·2         Clear         .019       4·29       4·306       42740       26·4         Clear         .014       3·02       3·029       29970       8·0         Clear         .005       8·25       8·25       8·25       8·25								• • •		
·005     4·62     4·624     45920     8·2       Clear       ·019     4·29     4·306     42740     26·4        Clear       ·014     3·02     3·029     29970     8·0        Clear       ·005     8·25     8·25     8·25     8·25			1		,			,		
019 4·29 4·306 42740 26·4 Clear Clear Clear Clear Clear					1					
014 3·02 3·029 29970 8·0 Clear										
·005 8.25 8.254 8.220 16.6			1							
000 020 020 024 0220 10 0       Clear		005	8.25	8.254						Clear
·005 5·17 5·174 51420 13·8 Clear			1							Clear
1·300 16·28 17·350 173180 38·0 Clear	1:	300	16.28	17.350	173180	38.0				Clear
	-		1					1		

Date of Receipt of Sample.	DESCRIPTION.	Temp. C.	Total solid Impurity.	Organic Carbon.	Organi Nitroge
1878. Nov. 18th	WELL WATERS—(continued). 4 and 5, Mount Street (Small-pox)		157.4		• • •
11 11	8 and 9, Little King Street, and 250, New John St. West (Scarlet Fever)		87.0		very lar
11 20th	70—72 Dollman Street · · · · ·	• • •	$\begin{vmatrix} 115.4 \\ 99.0 \end{vmatrix}$		large
11 11	48—53, Leopold St. (Scarlet Fever) 4 and 5 Courts, Inkerman St. (Scarlet) 1 (Fever)	• • •	150.0	• • •	
11 11 H II	29-31, Emily Street (Scarlet Fever)		232.4		very lar;
11 11	306, Pershore Road		72.4		11
11 11	307, Pershore Road (Typhoid)	• • •	$\begin{array}{c c} 66.0 \\ 360.4 \end{array}$	• • •	11
" 22nd	1—7, Lilly Green 139 and 140, Sampson Road (Searlet)	• • •	101.0		11
11 11	1 Court Norfolk Street		43.0		tt.
11 11	3 Court, Little Edward Street (Scarlet)	• • •	245.4		
11 11	Windsor Terrace, Ravenhurst Street	• • •	155.4		
11 11	32 and 33, Anderton Road	• • •	90.0	•••	very lar,
11 29th	2 and 3, Stafford Street (Scarlet Fever) 6 and 7, Highgate Place, Moseley Road		159.0	• • •	11
11 11	Shipway Terrace, Highgate St. (Scarlet)		180.0		11
11 30th	17, Montpellier Street		133.8		- 11
11 11	5 Court, Emily Street (Scarlet Fever)		$\begin{vmatrix} 181.4 \\ 227.0 \end{vmatrix}$		large
Dec. 5th	3 & 4 Courts, Emily St. (Scarlet Fever) 21 & 22 Courts, Brearley St. West (Scarlet)	• • •	134.4	• • •	very lar
11 11	18 Court, Well Street		95.0		
11 11	104 & 105, Rupert St. (Scarlet Fever)		156.0		very lar;
11 11	Back 7, Bull Ring		151.4		• • •
11 11	2—10, Cregoe Street (Searlet Fever) 132—136, Cregoe Street	• • •	135.4	•••	very lar
11 9th	18 and 19 Bloomshury Street	• • •	82.4	• • •	11
11 11	15, Speedwell Road		101.0		11
11 11	2, Poplar Avenue, Sandon Road		50.0		11
11 11	12 Court, Lee Bank Road (Searlet Fever) 10—12, Spring Street		105.4		11
11 11	10—12, Spring Street 44 and 45, Inkerman Street	•••	$\begin{vmatrix} 263.4 \\ 197.0 \end{vmatrix}$		
n 12th	Prospect Place, Holborn Hill	• • •	144.4		very lar;
n 20th	9—13, Wordsworth Road	***	98.4		
n 21st	49 and 50, Wordsworth Road	• • •	108.0		very lar
11 11	69 and 70, Cheapside 12, Court, Milk Street (Scarlet Fever)	•••	$\begin{vmatrix} 356.0 \\ 235.4 \end{vmatrix}$		11
u n	44—46, New Canal Street	• • •	197.4	• • •	11
11 11	Back 19, Park Lane		292.0		
11 30th	448 & 449, New John St. West (Measles)	• • •	148.4		
11 11	5—7, Dymoke Street (Scarlet Fever) 73—78, Newtown Row (Scarlet Fever)		$\begin{array}{c c} 151.0 \\ 122.0 \end{array}$	• • •	very lar
11 11	93—95, Emily Street (Scarlet Fever)	• • •	95.4		
11 11	46—49, Johnson Street	• • •	161.4		
11 11	41—45, Johnson Street	• • •	156.0	* * *	• • •

	Nitrogen as	Total	Previous Sewage or Animal	Chlorina		Hardness.		DAMA DAG
Linmonia	Nitrates and Nitrites.	Combined Nitrogen.	Contam- ination (Estimated)	Cinorine.	Temporary.	Perman- ent.	Total.	REMARKS.
.019	6.01	6.066	60340	14.0		• • •	•••	Clear
005	4.62	4.624	45920	9.7				Clear
.085	4.40			1		• • •		Clear
.004	1.76							Clear
.620	3.96		44380	18.1				Clear
.005	6.60	1	65720			• • •	•••	Clear
.005	•44		4120		• • •	•••	• • •	Clear Clear
.004	.55 10.01	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{5210}{99900}$		• • •	• • •	• • •	Slightly turbid
·015 ·011	0.09		20670		•••	•••	• • •	Clear
.006	.77		(	t .	•••	• • • •		Clear
190	6.82	1	1	1	•••	• • •	• • •	Clear
480	7.15		75130		•••	•••	• • •	Orear
.005	1.32	1	12920	1	***	•••		Clear
003	1	1		1				Clear
.009		1	1	1				Clear
.003			1					Clear
.004	4.29	1					• • •	Clear
.003	3.74		1					
.002	5.17		51390					
.650	4.51	5.045	50130	16.5				Clear
.028	3.30	3.323	32910	13.9				Clear
.007	1.87	1.876	18420	6.7	* 35*			Clear
125	4.40	A.						Clear
.010								Clear
.018	1							Clear
.014			15190	}				Clear
.016				L .		• • •		Clear
.008	1		L.				• • • •	Clear
.010		1				• • •		Clear
1.200		1	114060		•••	•••		Clear Clear
.025	1				• • •		• • •	Clear, some suspended
3.400			1					particles Turbid
2·000 ·008			1					Turbid
.009			186720					Clear
.010		4	1		***		•••	Clear
.010				1			•••	Clear
.650	4		1		***			Clear
.020	§		1					Clear
.008	į.				1			Clear
.150			1	1	1			Clear
.017			1	1				Clear
.090	)							Clear
.075	1		A.					Clear
				1				
7								
-	1	1	1	1	1		1	1

TABLE XVI.

RETURN FOR THE PERIOD IST JULY, 1877, TO 30TH JUNE, 1878, RESPECTING THE VACCINATION OF CHILDREN WHOSE BIRTHS WERE REGISTERED IN THE BOROUGH DURING THE SAID PERIOD.

Number of these Births remaining meither duly entered in the	Register (cols 3, 4, 5, and 6 of	this Return) nor temporarily accounted for in the "Report Book" (cols. 8, 9, and 10 of this Return).	11	<b>,</b>	& &	27						
	Removed to	rin not nud nug	10	619	330	19						
Number of these Births which remained mentered in the "Vaccination Register" or account (as shown by Report Book) of	Demound to	×	6	œ	16	e5						
Number of these Births duly entered in Columns 10, 11, and 13 of the "Vaecination unentered in the "Vaecination Register" on Register" (Birth List Sheets), viz.:		Postponement by Medical Certificate.	30	93	29	46						
tered in recination viz.:	Col. 13.	" Dead, Unvacei- nated."	.o	0+0	517	50						
ths duly en s of the "Va	11.	11.	11.	11	11.	11.	11.	" Had Smallpox."	-0	ì	İ	
Number of these Births duly entered in olumns 10, 11, and 13 of the "Vaccinatio Register" (Birth List Sheets), viz.:	Col. 11.	"Insus- ceptible of Vaccination"	1-11	G,		φı						
Number (Columns 1)	Col. 10.	" Success- fully Vac- cinated."	27	8,033	4,695	388						
Number of	9				5,653	505						
	Dang	CARDS D.		Birmingham	Aston (within the Borough)	Edgbaston ( " " )						

Table of the Number of Deaths occurring in each Street in the Borough of Birmingham during the Year 1878.

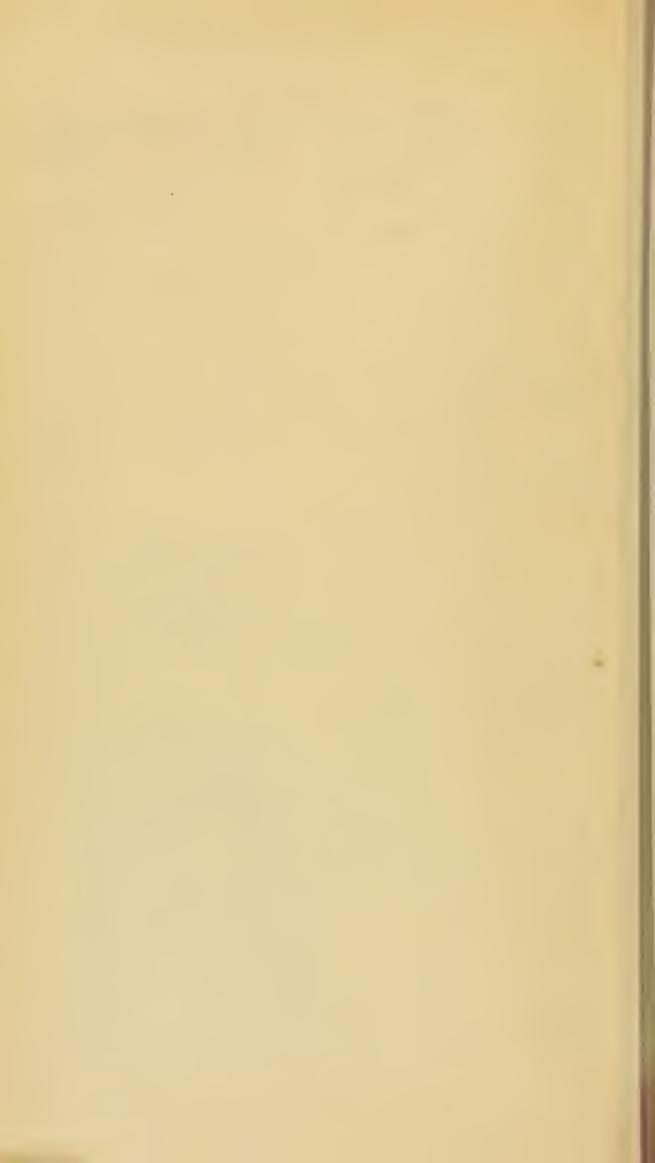
STREETS.	Zymotic Diseases	Other	STREETS.	Zymotic Diseases	Other	STREETS.	Zymotic Diseases	Other Diseases
	ZG			<u>2.0</u>	<u> </u>		Zyn	Dis
			Bath Row	2	5			
A			Bath Street	$\frac{2}{1}$	5 7	С		
			Beak Street	2	3	C C		
Abberley Street Abbey Street	1 9	2 5	Beaufort Road		7	Calthorpe Road	1	1
Aberdeen Street	10	15	Bedford Road	$\frac{1}{2}$	1	Cambridge Crescent		1
A. B. Row Adam Street	6	6	Belgrave Road Bell Barn Road	8	5 41	Cambridge Street Camden Drive	3	2
Adderley Street Devitor	2	3 6	Bellis Street Bell Street	1	6 2	Caniden Grove		
Adelaide Street, Deritene Adelaide St., Duddeston	2	3	Belmont Passage		4	Camden Street	$\begin{vmatrix} 17 \\ 2 \end{vmatrix}$	40
Albert Street, Deritend. Albert Street, All Saints		5	Belmont Row Benacre Street	3 8	$\begin{bmatrix} 7 \\ 28 \end{bmatrix}$	Camp Street	3	2
Albert Street, St. Martin'			Bennett's Hill	ĭ	3	Cannon Street		5 1
Albion Street	8	$\begin{vmatrix} 2\\20 \end{vmatrix}$	Berkeley Street Berner's Street	1	$\begin{vmatrix} 1\\2 \end{vmatrix}$	Cape Line		
Alexandra Road	'		Beswiek Street	1	1	Cardigan Street	5	11
Alexandra Street		5	Betholom Row Birehall Street	1	1 5	Carlisle Street	2	2 5
Alleock Street	1 9	8	Bird Lane		1	Carpenter Road	1	2
Allesley Street	- G	26	Bishopgate Street Bishop St., St. Martin's	4 3	20	Carr's Lane	1	3
All Saints' Road .	' ' ' '	4	Bishop Street, St. Mary's		1	Carver Street	5	14
All Sai ts' Street		$\begin{vmatrix} 2\\3 \end{vmatrix}$	Bishop Street South Bissell Street	3 11	7 13	Castle Street, St. Martin Castle Street, Deritend		$\frac{1}{2}$
Alma Street	4		Blake Lane	-	6	Catheart Street	3	7
Alston Street Ampton Road ,	1 1	5	Blews Street	2	4	Cato Street North	1	9
Anderton Road		5	Bloomsbury	$\frac{1}{2}$	10	Cattell Road	8	18
Anderton Street		5	Bloomsbury Street Blucher Street	2	6	Cattell Grove	1 11	3 11
Angelina Street		11	Bolton Road	-4	17	Centre Row		1
Ann Street	1 4	5	Bolton Street Bond Street		5	Chad Road Chapel House Street		1
Armoury Road		1	Bordesley Green Bordesley Green Road	5	$\begin{vmatrix} 20 \\ 1 \end{vmatrix}$	Chandos Road		1
Arthur Road			Bordesley Park Road	6	27	Chapman Road	3	6 2
Arthur Street Ashted Row	1 11	13 10	Bordesley Street Bow Street	16	$\begin{bmatrix} 18 \\ 7 \end{bmatrix}$	Charles Arthur Street	3	11
Aston Brook Street .			Bowyer Street	2	1	Charlotte Road	5 1	37
Aston Road	1 4	38	Bracebridge Street Bradford Street	$\begin{array}{c c} 7 \\ 6 \end{array}$	$\begin{bmatrix} 7\\36 \end{bmatrix}$	Charlotte Street	2	3 2
Asylum Road		3	Braithwaite Road		3	Cheapside	19	41
Athole Street Atlas Street	1 1	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	Branston Street Brasshouse Passage	4	9 2	Cheatham Street Checquer's Walk	2	2 4
Auekland Road	1	2 5	Brass Street	$\frac{2}{1}$	6 3	Cherry Street		2
Augusta Street Augustus Road	1	9	Bread Lane Bread Street, St. Paul's	1	1	Cherry Wood Lane Chester St., Ladywood	8	1 16
Austiu Street	1 7	2	Bread Street, St. Martin's	7	1 24	Chester St., Duddeston	3	4
Avenue Road	1	2	Brearley Street Brearley Street West	7	20	Cheston Road Christ Church Passage		2
			Brewery St., Deritend	2	6	Church Road, All Saints' Church Road, Duddeston	1	4
В			Brewery St., St. Mary's Brewery St., Duddeston	1	14	Church Road, Edgbaston		3
			Brickiln Street Bridge Poad	1	3	Church Street Clarendon Road	1 5	5
Baechus Road		6	Bridge Street, Duddeston		1	Clark Street	3	16
Bagot Street	7	10	BridgeStreet, St. Thomas Bridge Street West	1 3	45	Claybrook Street	2 2	9
Baker Street	0	8	Bristol Road	1	13 22	Clement Street	1	1
Balloon Street Balsall Heath Road		5	Bristol Street	3 13	16	Cleve Terrace Clissold Street	1	4
Balsall Street	1	3	Bromsgrove Street	0	21	Cliveland Street	3	5
Barbury Street Barford Street	1 70	$\frac{3}{27}$	Brookfield Road Brook Road		1	Coleman Street	1 7	$\frac{1}{19}$
Barford Street South	7	9 2	Brook Street	1	2	College Street	6	14
Barlow's Road	1	1	Broom Street			Colmore Row	5	7
Barn Street		19	Buckingham Street	5	16	Commercial Street	1	
Barr Street	6	8	Bullock Road			Congreve Street	3	5 1
Barr Street West		$\frac{6}{2}$	Bulloek Street Bull Ring	1	$\frac{1}{2}$	Constitution Hill Conybere Street	2 3	8
Bartholomew Street	4	10	Bull Street		3	Cooksey Road	4	18
Baskerville Passage Baskerville Place		1	Burbury Street Butler Street	4	9 3	Cope Street Coplow Street	2 2	4 5
Bath Passage			Butler Street South		1	Cotton Row .,	1	

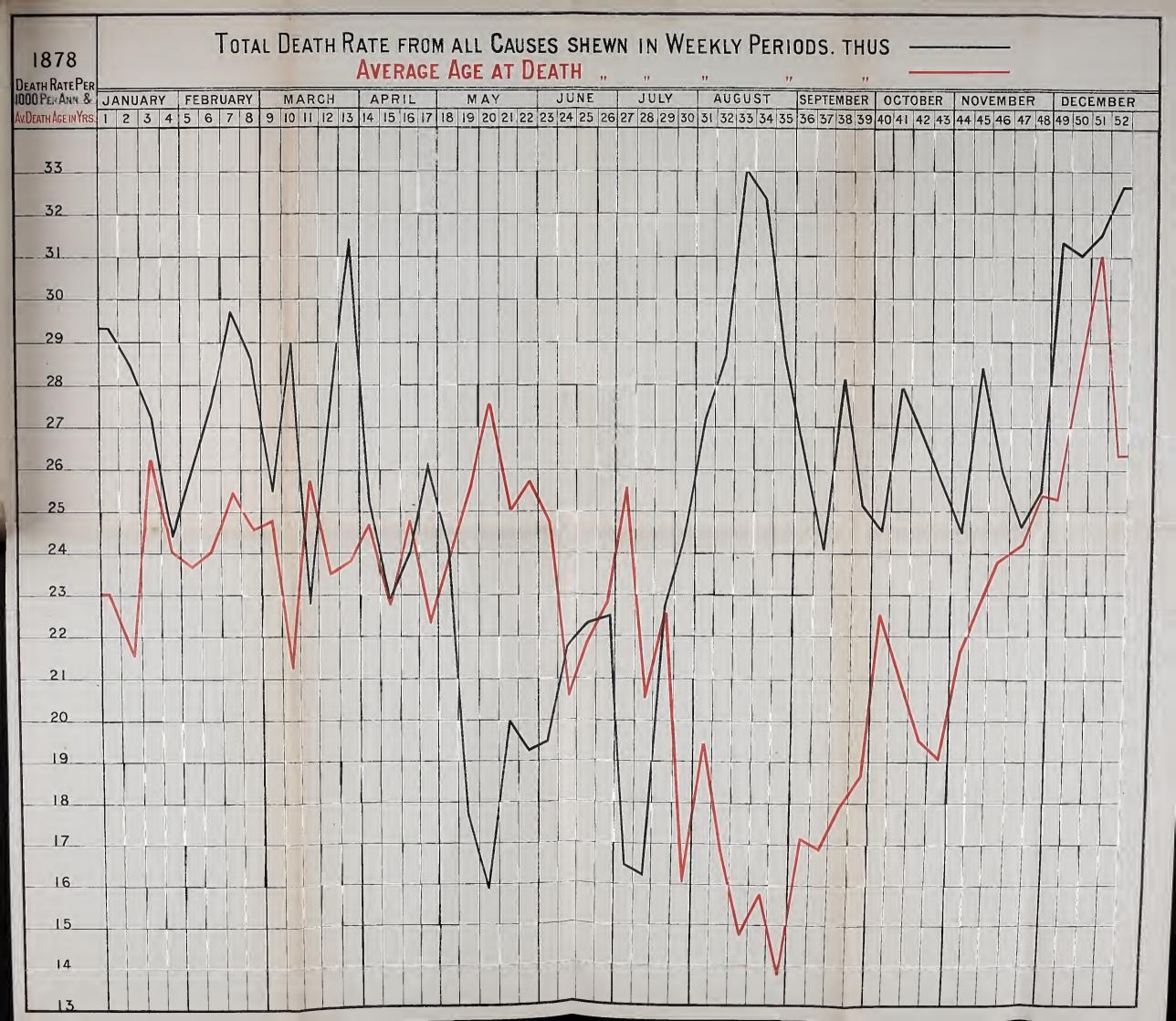
STREETS.	Zymoti Diseases	Other Discases	STREETS.		Zymotic Diseases	Other Diseases	STREETS.	Zymotic	Other
Cotton Street Conrthonse Yard Coventry Road Coventry Street Cox Street Coxwell Road Crabtree Road Crabtree Road Cranemore Street Cregoe Street Crescent Crescent Wharf Cronwell Street Crooked Lane Cross Street Cuckoo Road Cumberland Street Curzon Street Cuthbert Road	15 8 1 2 1 5 5 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 36 13 3 6 5 2 15 2 37 3 5 1 2	Fawdry Street Fazeley Street Fisher Street Fleet Street Floodgate Street Florence Street Fordrough Lane Fordrough Street Ford Street Ford Street Ford Street Foundry Road Fowler Street Francis Road Francis Street Frankfort-Street Frank Street		17 3 2 6 2 8 5 1 1 1	2 50 10 24 6 4 7 7 11 1 1 2 11 4 26 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Greaves' Court Greentield Crescent Green Lane Green's Court Green Street, Deritend Green Street, All Saints' Green's Village Greenway Street Grindstone Road Grosvenor Row Grosvenor Street Grosvenor Street Grosvenor Street Guldford Street Gullet, St. Mary Gullet, St. Thomas'	6 2 3 4 10 8 1 6	18 6 5 4 9 1 1 1 1 4 1 1
Dale End Dart Street Dartmouth Street Darwin Street Dawson Street Dean Street Derby Street Devon Street Devonshire Street	13 3 2 5	8 1 14 26 4 3 15	Freeman Road			3 2 10 20	Hagley Road Hall Street Hampton Street Handsworth New Road Danley Street Hanover Street Harborne Road	1 5 2	24 5 16 1 8 1
Digbeth Digby Street Doe Street Doe Street Dolobran Road Dolman Street Drury Lane Duchess Road Duddeston Mill Road Duddeston Row Dudley Road Dudley Street Dugdale Street Duke Street Dymoke Street	7   2   4   1   1   9   1   2   1   1   1   1   1   1   1   1	22 3 2 1 5 3 1 2 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Galton Street Garbett Street Garrison Lane Garrison Street Gas Street Geach Street Gee Street Gem Street George Road George Street(All Saints') George Street, Neehells George Street West	1	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 32 11 1 5 1 3 1 1 2	Heath Street South Heaton Street Iclena Street Icneage Street Icheley Street Henn Street	1 1 2 4 1 1 0 3	7 4 3 18 8 3 5 1 5 1 6 5
Engine Street Erasmus Road Ernest Street Essex Street Essington Street Ethel Street Excter Row Eyre Street	2   14   14   14   14   15   15   15   15	66 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ibb Street fillott Road fillott Road fillott Road fillott Road fillott Road fillots Passage filebe Street floucester Street floucester Street floucester Street floucester Street floucester Street foodwin Street fooden Street fooden Street foodman Street foodprick Street foodprick Street foodprick Street foodprick Street foota Green foota Green foota Green fough Road ford Road franten Road frantam Road frantam Road frantiam Road frantile Street	183 44 99 1 1 1 3 8 5 5 7 3	2	1	Jenrietta Street  Henry Street  Herbert Road  Herbert Road  Hermitage Road  Hick Square  Hick Square  Hick Street  High Road  Highgate Lane  Highgate Place  Highgate Street  High Street	11   2   2   2   2   2   2   2   2   2	2 1 6 44 151 551 551 551 551 551 551 551 551
Carconer Road	1 1	G G G G	reat Hampton Row reat Hampton Street reat King Street reat Lister Street reat Queen Street reat Russell Street	6 3 7 14 16	19 10 25 32 1 33 2	H	ope Street(All Saints) orse Pair ospital Street. oward Place oward Street owe Street umpage Road	9 4 9 4	

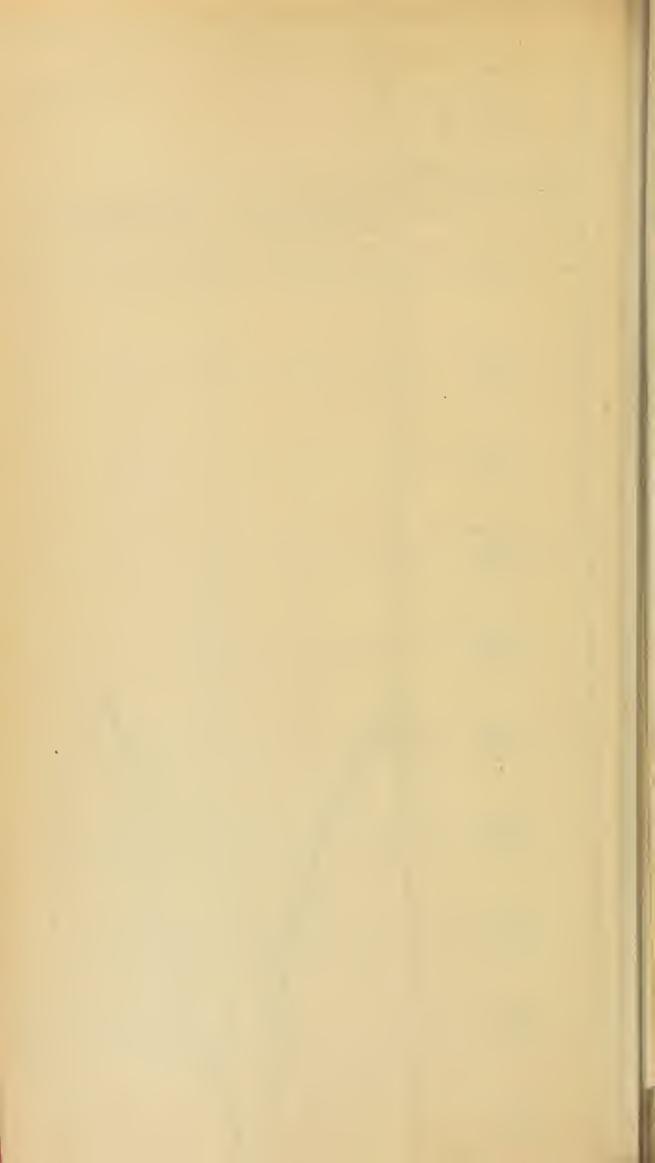
STREETS.	Zymotic	Other Disease	STREETS.	Zymotie Diseases	Other Diseases	STREETS.	Zymo	Other
Hunter's Vale Hurst Street Hutton Street Hyde Road	1 3	11	Lees Street Legge Lane Legge Street Lench Street Lennox Street Leopold Street	2 1 3 2 9	1 3 11 13 10 15	Montgomery Street Montpellier Street Monument Road Moore's Row Moorsom Street Moor Street	1 9 1	1 2 26
. 1			Lichfield Street Lilly Green Lingard Street Lionel Street Lister Street Little Ann Street Little Barr Street	1 2 1 2	6 2 2 16 6 3 6	Moreton Street Morville Street Moseley Road Moseley Street Mott Street Monntfield Road	1 8 7 10 6	4 15 24 24 8
Icknield Square Icknield Street Inge Street Ingleby Street	20	8 21 11 16	Little Bow Street Little Broom Street Little Cannon Street Little Cherry Street Little Edward Street Little Francis Street	2	1 3 1	Meriden Street Metchley Lane Metchley Park Road Miles Street Milk Street Miller Street	6 2 4 4	13 1 17 10 8
Irving Street Islington Row		34 5	Little Green Lane Little Hill Street Little King Street Little Shadwell Street Little Wright Street Liverpoo! Street Livery Street	1 7	16	Mill Lane Mill Street, Duddeston Mill Street, Ladywood Milton Street Milward Street Minories	2 5	1 6 6
Jamaica Row James Street Jenkin's Street .		3 1	Livery Street Lloyd Street Lodge Road Lombard Street Long Acre. Long More. Longmore Street.	10 2 5 4	33 13 5 17 2	Moat Lane Moat Row Moilliett Street Moland Street Mole Street Mona Road Monmouth Street	7	3 1 17 5 1
Jennen's Row Johnson Street Johnstone Street John Street		2 4 11	Long Street Lord Street Louisa Street Loveday Street Love Lane Lower Camden Street	2 2 4 4 3	13 9 19 1 13	Montague Road	6 4 1	5 4 4 3 16
Keeley Street Kelynge Street		2 2 9	Lower Dartmouth Street Lower Darwin Street Lower Essex Street Lower Fazeley Street Lower Hospital Street Lower Hurst Street	8 1 2 4	5 1 19 7 7	Musgrave Road Muntz Street  N	1	3 9
Kendall Road Kent Street Kent Street North Kenyon Street Key Hill King Alfred's Place		6 3 1 9 3 10 2 10 4 2	Lower Hurst Street East Lr. King Edward's Rd. Lower Lawley Street Lower Lawrence Street. Lower Loveday Street Lower Pershore Street Lower Russell Street	2	1 5 1 2 4	Navigation Street Nechells Park Road Nechells Place Needham Street	1	7 31 4
King Edward's Place King Edward's Road Kingston Road Kingston Row King Street Kyott's Lake Road Kyrwick's Lane	• • • • • • • • • • • • • • • • • • • •	$ \begin{array}{c cccc} 2 & 12 \\ 1 & 4 \\ 1 & 2 \\ 2 & 13 \end{array} $	Lower Russell Street Lowe Street Lower Temple Street Lower Tower Street Lower Trinity Street Lower Windsor Street Lowe Street	13	2 3 4 26 6 2	Needless Alley Nelson Street Nelson Street South Nelson Street West New Bartholomew Street New Bond Street New Bridge Street	5 8 4 1 1	5 13 11 1 7 2
L			Loxton Street	1	4 9	New Bridge Street New Canal Street New Church Street Newdegate Street New Edmund Street New England New Hall Hill	7 5	14 6 12 3
Ladypool Lane Ladywell Passage Ladywell Walk Ladywood Grove	•••	1 1 6	M Madavall St. St. Coo			New Hall Street New Inkleys New John Street New John Street West	5 13 22	6 9 21 49
Ladywood Road Lancaster Street Lander Street Langley Road Lansdown Street Lareles Street	•••	5   26 5   16 1   4 5   9	Maedonald St., St. Geo. Macdonald St., St. Mrth's Main Street Malvern Hill Road Manehester Street Manor Road	1 4 5 5	6 7 8 6 3 1	New Market Street New Meeting Street New Spring Street New Street New Summer Street Newton Street	1 3 10	3 10 1
Latimer Street Latimer Street South Lawden Road Lawley Street Lawrence Street	1	1 2 2 22 1 4 15 7 23	Market Street Mark Lane Marroway Street Marshall Street Marshall Street South	1	1 3 1 1	Newtown Row Nile Street Ninevel Road Noel Road Norfolk Road	8	36
Lease Lane Ledsam Street Lee Bank Road Lee Creseent Lee Mount Leek Street		$ \begin{array}{c cccc} 1 & 1 & 1 \\ 4 & 10 & 24 \\ 1 & 9 & 1 \end{array} $	Mary Ann Street Mary Street MasshonseLane(St. Mrtn Masshouse Lane, Edgbstr Meadow Road Meeting House Yard		3	Norfolk Street Norman Street Northampton Street Northbrook Street Northbrook Street NorthumberlaudStreet North Warwick Street	2 3	1 8 6 2 2

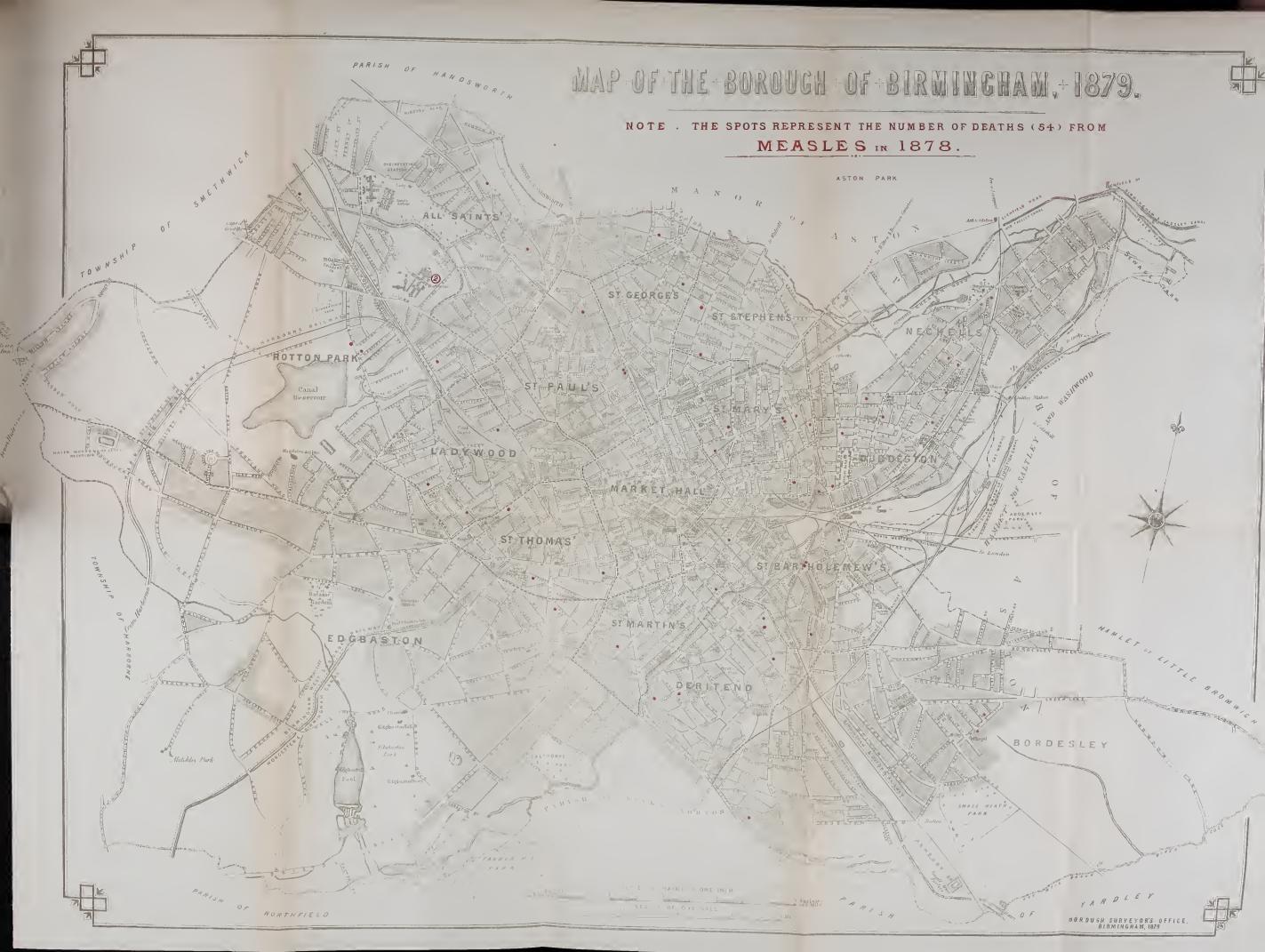
			96				ic s	Section
STREETS.	Zymotic Diseases	Other	STREETS.	Zymotic Diseases	Other Diseases	STREETS.	Zymotic Diseases	Other
		1 1						
Northwood Street	8	S				St. Paul's Square St. Peter's Place	I	1
Norton Street Nova Scotia Street	2	8	R			St. Philip's Churchyard		1
Nursery Road		2				St. Stephen's Street St. Vincent's Street	5	16
			Radnor Street	,	2 4	Scholefield Street Scotland Passage	1	21
			Railway Terrace, Destou Railway Terrace, Nechells	1	6	Scotland Street Scott Street	1	1
0			Rann Street Rateliffe Place	2	4	Severn Street Seymour Street	1	6
			Ratcliffe Street Ravenhurst Street		11	Shadwell Street	2	2 9
Oakley Road Old Cross Street	1	$\begin{bmatrix} 2 \\ 4 \end{bmatrix}$	Rawlins Street	2	11 12	Shakespeare Road Sheepcote Lane		5
Old Inkleys Old Meeting Street	2	3	Rea Street South	1	1	Sheep Street	5	10 12
Old Square		3	Regent's Parade		3 4	Sherborne Street		29 37
Oliver Road Oliver Street	5	8 2	Regent Place · · · Regent Row · · · · · ·	1	7	Shutt Lane Silver Street	1	1
Oozells Street Oozells Street North		1 3	Regent Street	L	3	Sir Harry's Road		i s
Ormond Street Osler Street	5	8	Reservoir Road Richard Street		9	Skinner Street	١.	2 8
Oughton Place Ontlet Road		3	Richard St., All Saints Richmond Hill Road	1	1	Slaney Strect Sloc Lane		
Owen Street Oxford Street	1	8	River Street	1	2	Smallbrook Street Smithfie d Passage	1	7 2
Oxygen Street	1 1	2	Robert Road	1 .	1 12	Smithfie d Street Smith St., St. George's		9
			Rocky Lane Rodway Street	1 0	6	Smith Street, Duddestor Snape Street	I	3 7
Р			Rope Walk	1	1 2	Snow Hill	2	12 6
			Rotton Park Street	2	4	Somerset Road	١,	
Paddington Street .	. 1	7 3	Rupert Street	1 3	11 4	Somerset Street South Road	1 0	S
Pakenham Road Palmer Street	. 12	7	Ruston Street Ruston Street North	3	6 19	Spark Street Speaking Stile Walk	1	2
Parade	.	6	Ryland Road	1	10	Speedwell Road		4
Parker Street Park Lane	1	6 2	Ryland St., Ladywood'	1	2 8	Spiceal Street		
Park Road, All Saints' Park Road, Edgbaston.	12	45	Ryland Street North .	1		Spooner Street Springfield Street		2 8
Park Street Parliament Street	. 4	10				Spring Hill	6	15
Paternoster Row Pebble Mill Road .	1 7	5	s			Spring Hill Passage . Spring Road		5
Peel Street	. 4	6 3				Spring Vale Statford Street	.	5
Penn Street, Duddeston Pershore Road		1				Staniforth Street Stanmore Road		24
Pershore Street		4	Salop Street Saltley Road	1 .5	11	Station Road Steelhouse Lane		25
Phillip's St., St. Martin' Phillip's St. St. George's.	. 3	3	Saltley Street		2	Stephenson Place . Stephenson Street .		
Piddock Street		1	Sampson Road North .	. 2	1	Steward Street Stewart Street	. 10	18
Pinfold Street	. 2	10	Sand Street	$\cdot$	3 2	Stirling Road		11
Pitsford Street	1	2	Sandy Lane	. 2		Stone Yard (Deritend) .	. 1	''
Plough and Harrow Roa Pope Street	d 3	10	Sarah Street St. Augustine's Road					
Poplar Avenue West			St. Andrew's Street St. Andrew's Road	1 4		Stratford Place	5	11
Porchester Street	. 1	3	St. George's Crescent .			Stand Court Change	4 2 7	16
Potter Street Poultry		3	1 C4 O 121 - 0	9 2		F	7 4	18
Propert Street	4	3 7	St George's Terrace .	. 8		Summer Hill Road .	3 8	4 9
Price Street	5	14	St. James' Road		1	Summer Hill Terrace		39
Princes Boy		1	St. Luke's Road	. 5	10	Summer Road		
Princes Street			1 Ct Mault's Ctreat	- 0	6	Summer St., Edgbaston	. 5	9 4
Princip Street	. 4	$\begin{bmatrix} 1\\8 \end{bmatrix}$	St. Martin's Lane	2	1		. 2	10
Pritchett's Lane			St. Martin's Row		1 3	Sun Street West Sutton Street	1	2 4
		2 4	St. Mary's Row	: :	6	Swallow Street Swan Passage	2	
Prospect Row	!	1 5	1 St. Mary's Street	}	1 4	Sudonham Dood		

STREETS.	Zymotic Diseases	Other	STREETS.	Zymotic Diseases	Other Diseases	STREETS.	Zymotic Diseases	Other
Talbot Street Talfourd Street Tanter Street Taylor Street Temple Field Street Temple Row Temple Row West Temple Street Temple Street Temple Street Temple Street	3 3 3 4	16 4 6 5 5	Vauxhall Road Vauxhall Street Vere Street Vicarage Road Victoria Grove Victoria Street Villa Street Villers Street Vine Street Vittoria Street Vittoria Street Vittoria Street Vittoria Street	9 1 5	22 5 9 1 4 5 3 1 2 4	Winson Green Road Winson Street Witton Street Woodbourne Road Woodcoek Street Wood Street, St. Thomas' Wood Street, Ladywood Worcester Street. Wordsworth Road Wrentham Street Wright Street Wrottesley Street Wyndham Road	6 2 3	14 5 7 9
Tenby Street North Tennant Street Theodore Street Theresa Road Thimble Mill Lane Thomas St., St. Mary's	1 6 1 2 4	2 15 9 2 10 6	Walter Street Ward Street Warner Street Warstone Lane Warstone Parade East Warstone Parade West	1 1 1 5	4 12 3 21 2	Wynn Street X	3	18
Thomas Street, Deritend Thorp Street Tillingham Street Tindal Street Tonk Street Tower Street Trafalgar Road Trent Street Trinity Terrace Turner Street Tyndall Street	4 2 5 10 1 11	7 6 6 2 30 6 8 6	Warwick House Passage Warwick Street Washington Street Waterloo Street Water Street Water works Road Watery Lane Watts Road Waters Road Watery Lane Watts Road Weaman Row Weaman Street	7 1 3 3 18	13 3 2 14 2 18 1 15 1	Yew Tree Road		1 2
Unett Street Union Passage Union Street Union Terrace Upper Dean Street Upper Gough Street Upper Highgate Street Upper Hoekley Street Upper Hospital Street Upper Marshall Street	1 2 1 6 3	24 3 1 1 6 3 1 16 2	Wellington Passage Wellington Road. Wellington Street Wellington Street Well Lane. Well Street Westbourne Road Western Road Westfield Road Westley Street Weston Street Wharf Lane Wharf St., St. Thomas' Wharf Street, Deritend. Wharf Street, Duddeston Wharf Street, All Saints' Wharton Street	5 10 1 5	4 8 24 3 2 2 10 4 1 7 7	ADDENDA.  Bordesley Station Rotton Park Reservoir Soho Railway Station Birmingham and Warwick Canal Snow Hill Station Pebble Mill Pool Old Birmingham Canal Hoekley Railway Station River Rea The Areade Vauxhall Railway Station		5 1 1 2 3 2 2 1
Upper Mill Lane Upper Priory Upper Ryland Road Upper Tower Street Upper Trinity Street Upper Windsor Street  V	1 3 4 9	6 8 14	Wheeler Street Wheeley's Lane Wheeley's Road White Lion Passage White Road Whitmore Road Whitmore Street Whitall Street Wiggin Street William Edward Street William Henry Street William Street, Deritend William Street, Deritend	9 2 1 2 2 2 1 7 2 3	15 3 7 3 9 6 6 1 18 1 3	Asylum	7 42	182 121 65 523 76 6 1 2
Vale Street Varna Road Vaughton Street Vaughton Street South Vauxhall Grove	3 3 1 1	6 18 2 2	Willis Street Wilton Street Wlndmill Hill Windmill Street Windsor Street	5 1 3 1	9 2 3 2	Deaf and Dumb Institu-	2421	7241



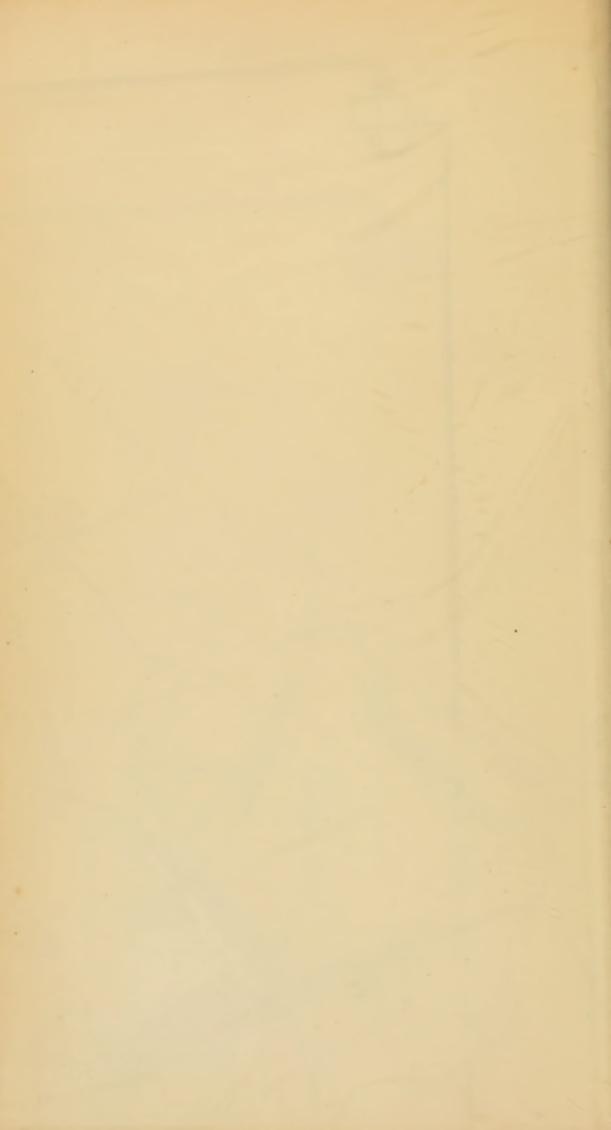


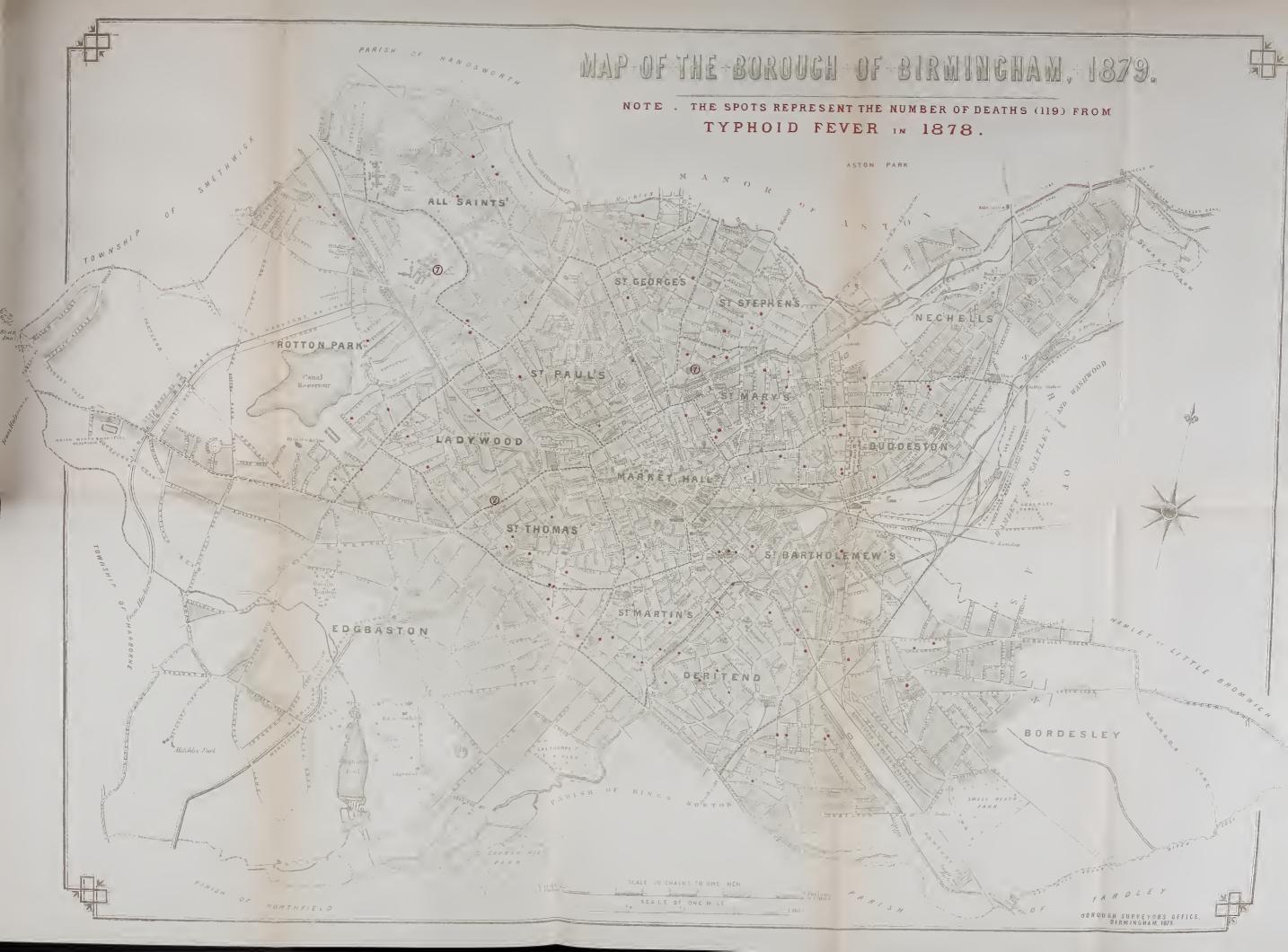














## BOROUGH ANALYST'S LABORATORY,

PUBLIC OFFICE, BIRMINGHAM,

May 3rd, 1879.

## TO THE HEALTH COMMITTEE.

## MR. CHAIRMAN AND GENTLEMEN,

I beg to report that during the year 1878 I have analysed 158 articles of food and drink, of which the following are the particulars:—

food and drink, or which the	onowing are one partitionals.—
No. DATE.—1878. ARTIC	
509—Jan. 1st Milk	
	purchaser. No prosecution.
.510—Feb. 8th Milk	
	purchaser. No prosecution.
511Mar. 15th Mnstard	Genuine.
512— " Mustard	
513— 11 Mustard	
514— " Mustard	
515— " Mustard	
516— " Mustard	
517—Mar. 19 h Milk	
	purchaser.
518— " Tea	
519— " Tea	
520— 11 Tea	Genuine.
521— " Tea	Genuine.
522— " Tea	
523— 11 Tea	Genuine.
524—Mar. 26th Coffee	Genuine.
525— 11 Coffee	
526— " Coffee	
527— 11 Coffee	Genuine.
528— " Coffee	Adulterated with chicory.
529— " Coffee	
530—Mar. 27th Milk	Gennine.
531— " Milk	Genuinc.
532— " Milk	
533— " Milk	
534—Mar. 29th Milk	Slightly Adulterated.
535— " Milk	Genuine.
536— " Milk	Adulterated with 75% of water, or upwards
	8 parts of water added to 100 of milk.
537— 11 Milk	
538—April 29th Milk	Gennine.
539 " Milk	
540— " Milk	
541— " Milk	Adulterated with 8% of water.
542—May 6th Black Tea	Genuine.
543— " Black Tea	Genuinc.
544— 11 Black Tea	
545—May 7th Milk	Adulterated with 9.5 % of water.
546— " Milk	
547— " Milk	Adulterated with 5 % of water.
548— " Milk	Nearly genuine.
549—May 13th Black Tea	
550— " Black Tea	Genuine.
551— " Black Tea	Genniue.
552— " Coffee	Genuine.
553 – " . Black Tea	
554— n Coffee	Genuine.
555—May 14th Milk	Adultcrated with 11:3 % of water.
556—May 20th Coffee	Genuine.
557— " Coffee	

NATE		REMARKS.
Sas	DATE1878. ARTICLES.	
		Genuine.
Genuine	559- White Tepper	Adulterated with 5 % of Earthy matter.
	560 " Black repper	Comming
Solution   Ale   Contained 63 grains of Salt per gallon.	17V* DISAR PODDEL	Adultorated with 6 % of Earthy matter.
Alle	000	
Adulterated with 27% of water. Fined 1056	563 —June oth Ale	Gennine.
200- and costs.   200- and c	101	Contained 63 grains of Satt per garron
Adulterated with 19% of water.   Floor   Gennine.   Gennine.   Gennine.	565— " Milk 95th Milk	Adulterated with 21% of water
Semine   Flow   Semine   Flow   Semine   Flow   Semine    566—3 title 20tt	Uniterated with 19% of water. Fined 10/-	
Milk   Gennine		Convine [and costs.
569	Wills	Adulterated with 19.5 % of water.
Milk	569- " Milk	
172A	570 " Milk	and the second s
Flour   Genuine.   Genu	571 " Milk	
Flour   Genuine.   Genuine.	572A— July 9th Milk	Gennine.
Flour   Genuine.   G	Flour Flour	Genuine.
Flour   Genuine.   Flour   Genuine.   Fire   Flour   Genuine.	572- Elon:	
Flour   Genuine.	5/3 Flour	
Flour   Genuine.	Flour	
Flour   Flour   Genuine.	Flour	
578	RIGHT	
579-     Flour   Genuine   Genuine	F 1011F	
Flour   Flour   Genuine	570 H FIOUR	
1581	TOOL TOOL TOOL TOOL TO THE TOO	
Milk   Genuine   Genuine	581— " Flour	Genuine.
S84 - Aug. 24th   Ale   Cenume.   Contained 94°32 grains of salt per gallon.	302— Wille	Genuine.
S85—   Ale   Genuine.   Fined 20/- and costs.	583— Ang 24th Ale	Genuine.
Ale   Genuine   Fine 257 and costs		Contained 94.32 grains of sait per ganon.
S87_Aug. 26th. Ale   Gennine.	110	
588	507 Ang 26th Ale	
S89	200 II A10	
Solution    700 u Ale		
592	590— " Ale	
593		
594	110	Genuine.
Sp5     Ale   Genuine   Adulterated with Water, 28° under proof   Genuine   Genuin	A Lo	Genuine.
596—Aug. 30th. Gin         Genuine.           597— " Gin         Genuine.           598— " Gin         Genuine.           599— " Gin         Adulterated with Water, 28° under proof.           600— " Gin         Adulterated with 28 % of Water. Case dismissed through an informality.           601— " Milk         Adulterated with 10 % of Water.           603— " Milk         Genuine.           604— " Milk         Genuine.           605— " Milk         Genuine.           606—Sept. 6th. Milk         Adulterated with 16 % of Water, and Cream abstracted. Case dismissed through an informality.           607—Sept. 9th         Milk         Adulterated with 22 % of Water. Ditto.           608         " Milk         Adulterated with 12 % of Water. Ditto.           609         " Milk         Adulterated with 20 % of Water. Ditto.           610— " Milk         Adulterated with 18 % of Water. Ditto.           611         Sept. 12th. Gin         Genuine.           612— " Gin         Genuine.           613— " Gin         Genuine.           614         Gin         Genuine.           615         Gin         Genuine.           615         Gin         Genuine.	Ale	
597— "Gin Gin Genuine, nearly 598— "Gin Gin Genuine. 600— "Gin Adulterated with Water, 28° under proof. 601 "Gin Genuine. 602—Aug. 31st. Milk Adulterated with 28 % of Water. Case dismissed through an informality. 603— "Milk Adulterated with 10 % of Water. 604— "Milk Genuine. 605— "Milk Genuine. 606—Sept. 6th. Milk Adulterated with 16 % of Water, and Cream abstracted. Case dismissed through an informality. 607—Sept. 9th Milk Adulterated with 22 % of Water. Ditto. 608— "Milk Adulterated with 12 % of Water. Ditto. 609— "Milk Adulterated with 12 % of Water. Ditto. 610— "Milk Adulterated with 20 % of Water. Ditto. 611—Sept. 12th. Gin Genuine. 612— "Gin Genuine. 613— "Gin Genuine. 614— "Gin Genuine. 614— "Gin Genuine. 615— "Gin Genuine. 615— "Gin Genuine.	596_Aug. 30th Gin	
599 "Gin Gin Adulterated with Water, 28° under proof. 600	507 (ill (ill	
600 Gin Gin Gin Genuine. 601 Gin Genuine. 602—Aug. 31st. Milk Adulterated with 28 % of Water. Case dismissed through an informality. 603- Milk Adulterated with 10 % of Water. 604- Milk Genuine. 605- Milk Genuine. 606-Sept. 6th. Milk Adulterated with 16 % of Water, and Cream abstracted. Case dismissed through an informality. 607-Sept. 9th Milk Adulterated with 22 % of Water. Ditto. 608- Milk Adulterated with 22 % of Water. Ditto. 609- Milk Adulterated with 20 % of Water. Ditto. 610- Milk Adulterated with 20 % of Water. Ditto. 611- Sept. 12th. Gin Genuine. 612- Gin Genuine. 613- Gin Genuine. 614- Gin Genuine. 615- Gin Genuine. 615- Gin Genuine. 616- Genuine. 617- Gin Genuine. 618- Gin Genuine. 619- Gin Genuine. 619- Gin Genuine. 619- Gin Genuine.	598 " Gin	
601 " Gin Genuine. 602—Aug. 31st. Milk Adulterated with 28 % of Water. Case dismissed through an informality. 603- " Milk Adulterated with 10 % of Water. 604- " Milk Genuine. 605- " Milk Genuine. 606-Sept. 6th. Milk Adulterated with 16 % of Water, and Cream abstracted. Case dismissed through an informality. 607-Sept. 9th Milk Adulterated with 22 % of Water. Ditto. 608 " Milk Adulterated with 22 % of Water. Ditto. 609 " Milk Adulterated with 12 % of Water. Ditto. 610- " Milk Adulterated with 20 % of Water. Ditto. 611-Sept. 12th. Gin Gennine. 612- " Gin Gennine. 613- " Gin Gennine. 614- " Gin Gennine. 615- " Gin Adulterated with Water, 28° under proof. 615- " Gin Gennine.	599= " Gin	Adultorated with Water, 28° under proof.
Adulterated with 28 % of Water. Case dismissed through an informality.  Milk Adulterated with 10 % of Water.  Milk Genuine.  Milk Genuine.  Milk Genuine.  Milk Genuine.  Milk Adulterated with 16 % of Water, and Cream abstracted. Case dismissed through an informality.  Milk Adulterated with 22 % of Water. Ditto.  Milk Adulterated with 12 % of Water. Ditto.  Milk Adulterated with 12 % of Water. Ditto.  Milk Adulterated with 20 % of Water. Ditto.  Milk Adulterated with 20 % of Water. Ditto.  Milk Adulterated with 18 % of Water. Ditto.	C:-	
dismissed through an informality.  Adulterated with 10 % of Water.  Genuine.	coo you 31st Milk	Adulterated with 28 % of Water. Case
603- " Milk Genuine. 604- " Milk Genuine. 605- " Milk Genuine. 606-Sept. 6th. Milk Adulterated with 16 % of Water, and Cream abstracted. Case dismissed through an informality. 607-Sept. 9th Milk Adulterated with 22 % of Water. Ditto. 608 " Milk Adulterated with 12 % of Water. Ditto. 609 " Milk Adulterated with 20 % of Water. Ditto. 610- " Milk Adulterated with 20 % of Water. Ditto. 611-Sept. 12th. Gin Gennine. 612- " Gin Gennine. 613- " Gin Gennine. 614- " Gin Gennine. 615- " Gin Gennine.	002-408.	dismissed through an informality.
604	603- " Milk	Adulterated with 10 % of Water.
606 -Sept. 6th. Milk.  607 - Sept. 9th Milk.  608 " Milk Adulterated with 12 % of Water. Ditto. 609 " Milk Adulterated with 12 % of Water. Ditto. 610 " Milk Adulterated with 20 % of Water. Ditto. 611 - Sept. 12th Gin Gennine. 612 " Gin Gennine. 613 " Gin Gennine. 614 " Gin Adulterated with Water, 28° under proof. 615 " Gin Gennine.	601 " Milk	Gemine.
through an informality.  607 Sept. 9th Milk Adulterated with 22 % of Water. Ditto.  608 "Milk Adulterated with 12 % of Water. Ditto.  609 "Milk Adulterated with 20 % of Water. Ditto.  610 "Milk Adulterated with 20 % of Water. Ditto.  611 Sept. 12th Gin Gennine.  612 "Gin Gennine.  613 "Gin Gennine.  614 "Gin Adulterated with Water, 28° under proof.  615 "Gin Gennine.	605 - " Milk	Genuine.
through an informality.  607 Sept. 9th Milk Adulterated with 22 % of Water. Ditto.  608 "Milk Adulterated with 12 % of Water. Ditto.  609 "Milk Adulterated with 20 % of Water. Ditto.  610 "Milk Adulterated with 20 % of Water. Ditto.  611 Sept. 12th Gin Gennine.  612 "Gin Gennine.  613 "Gin Gennine.  614 "Gin Adulterated with Water, 28° under proof.  615 "Gin Gennine.	606 -Sept. 6th Milk	Adulterated with 16 % of water, and
607 Sept. 9th Milk Adulterated with 22 % of Water. Ditto. 608 "Milk Adulterated with 12 % of Water. Ditto. 609 "Milk Adulterated with 20 % of Water. Ditto. 610 "Milk Adulterated with 20 % of Water. Ditto. 611 Sept. 12th Gin Gennine. 612 "Gin Gennine. 613 "Gin Genuine. 614 "Gin Adulterated with Water, 28° under proof. 615 "Gin Gennine.		through an informality
610 — " Milk Adulterated with 18% of Water. Ditto. 611 Sept. 12th Gin Gennine. 612 — " Gin Gennine. 613 — " Gin Gennine. 614 — " Gin Adulterated with Water, 28° under proof. 615 — " Gin Gennine.	807 Sept Oth Mills	Adulterated with 92 % of Water. Ditto.
610 — " Milk Adulterated with 18% of Water. Ditto. 611 Sept. 12th Gin Gennine. 612 — " Gin Gennine. 613 — " Gin Gennine. 614 — " Gin Adulterated with Water, 28° under proof. 615 — " Gin Gennine.	608 Milk	Adulterated with 12 % of Water. Ditto.
610 — " Milk Adulterated with 18% of Water. Ditto. 611 Sept. 12th Gin Gennine. 612 — " Gin Gennine. 613 — " Gin Gennine. 614 — " Gin Adulterated with Water, 28° under proof. 615 — " Gin Gennine.		Adulterated with 20 % of Water. Ditto.
611       Sept. 12th Gin       Genuine.         612-       Gin       Genuine.         613-       Gin       Genuine.         614-       Gin       Adulterated with Water, 28° under proof.         615-       Gin       Genuine.		Adulterated with 18 % of Water. Ditto.
612—		
614 Gin Adulterated with Water, 28° under proof. 615 Gennine.	612 " Gin	
615 Gennine.		
this Genuine,		
	010 0 WIII	Centine.

D	· mrs i	070	A DIMICIT ES	DEWADYO
No. DA 617—Oc	\TE]		Butter	REMARKS. Genuine.
				Genuine.
618—	11	• • •		
619—Oet		• • •		Adulterated with 8.5 % of Water.
620	11		Butter	Genuine.
621	11	• • •		Genuine.
622—	П		Butter	Gennine.
623—	†r		Butter	Genuine.
624—	П		Butter	Genuine.
625—	11		Butter	Genuine.
626—	11		Butter	Genuine.
627—	11		Butter	Genuine.
628	11		Butter	Genuine
629—	11		Butter	Genuine,
630—Dec	e. 2nd		Sherry	Genuine
631	п		Sherry	Genuine.
632—	11		Sherry	Genuine.
633—	11		Sherry	Genuine.
634	11		Sherry	Gennine.
635—	11		Sherry	Genuine.
636—Dec			Milk	Adulterated with 22 % of Water. Fined 10/-
637—	11		Milk	Genuine. [and costs.
<b>6</b> 38—	11		Milk	Adulterated with 13 % of Water. Fined
_			Coffee	Genuine. [2/6 and costs.
			Coffee	Genuine.
640—	н			
641	Ħ		Coffee	Genuine.
642—	Ħ		Coffee	Genuine.
643—	11		Coffee	Genuine.
644—	11		Coffee	Gennine.
	e. 19ti		Mustard	Genuine.
646—	H		Pepper	Genuine.
647-	11		Mustard	Genuine.
648—	11		Pepper	Genuine.
649—	11	٠.	Mustard	Genuine.
650—	H		Pepper	Genuine.
651—	It		Mustard	Genuine.
652—	П		Pepper	Genuine.
653—Dee	. 19th	1	Mustard	Adulterated with 25 % of Wheat Flour
			A	and Turmeric.
654—	11		Pepper	Genuine.
655—	11		Mustard	Genuine.
656—	11		Pepper	Genuine.
657—	11		Mustard	Genuine.
658—	11		Pepper	Genuine.
659—	TI.		Mustard	Genuine.
660—	"		Pepper	Genuine.
661—	11		Mustard	Genuine.
662—			Pepper	Genuine.
663—	11		Mustard	Genuine.
	11			
664—	11		Pepper	Genuine.

## The articles examined comprised—

42	Samples of	Milk.
17	7 - TH	Coffee.
16	n n	Mustard
15	j 11	Ale.
14	l 11	Pepper.
13	11	Tea.
12	11	Gin.
12	11	Butter.
11	. 11	Flour.
6	11	Sherry.
		~

Total 158

Out of the 158 samples examined, 34, or upwards of 21 per cent., were adulterated.

Of the 42 samples of Milk, so many as 24, or 57 per cent, had been diluted with water and in one instance a portion of the cream had also been abstracted.

Three of the 17 samples of Coffee were more or less adulterated with Chicory, while one of the 16 samples of Mustard contained 25 per cent. of Wheat Flour and Turmeric.

In two of the samples of Ale analysed there was an excessive quantity of Salt, and in two of the Peppers I found a larger quantity of mineral matter than is naturally present in genuine samples of this condiment.

Two of the samples of Gin were below the allowed standard of strength. The samples of Tea, Butter, Flour, and Sherry were all genuine.

I remain,

Mr. Chairman and Gentlemen,

Your obedient Servant.

ALFRED HILL. M.D., F.I.C., Borough Analyst.